March 20, 1967

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SCIENTIFIC PUBLICATIONS

OF THE

BIOSCIENCE PROGRAMS DIVISION

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

VOLUME I. BEHAVIORAL BIOLOGY

# SCIENTIFIC PUBLICATIONS OF THE BIOSCIENCE PROGRAM DIVISION

VOLUME I BEHAVIORAL BIOLOGY

bу

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of the

Biological Sciences Communication Project

C. W. Shilling, M.D., Director

sponsored by

The George Washington University

March 20, 1967

work performed under NASA Contract
NSR 09 010 027



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## PREFACE

This bibliography was prepared to supplement the needs of various bioscience administrators at the National Aeronautics and Space Administration for maintaining a current awareness in their respective fields. When critically analyzed, bibliographies provide meaningful insight to the state of activities for scientific endeavors by defining areas of pursuit, providing records of accomplishment, identifying scientists and laboratories engaged in various scientific activities, revealing the direction of research and the areas of gradient emphasis in addition to listing the available literature in a particular subject field. For these reasons the importance of bibliographies is being increasingly recognized by both science administrators and research scientists.

The more than 1,400 citations in the total work represent the publication efforts of the grantees and contractors of the Bioscience Program Division since it was established. Letters were sent to the principal investigators requesting a list of publications resulting from research supported by grants or contracts from this division. The citations included in this bibliography were provided in response to this letter. Only those papers appearing in the serial literature and widely distributed report literature were considered. Theses and doctoral dissertations were omitted since such research would probably be published in scientific journals at a later date.

These citations have been collated into separate volumes for each program branch. A few citations predate the establishment of the branch offices under which they appear but are included because they resulted from efforts subsequently subsumed under these program offices. The volumes are enumerated as follows: Volume I, Behavioral Biology; Volume II, Environmental Biology; Volume III, Exobiology; Volume IV, Physical Biology; Volume V and VI, Planetary Quarantine and Bioscience Communications, respectively. Because of the brevity of the latter two bibliographies, they have been combined under one cover.

Each volume is divided into a number of sections beginning with the literature citations listed chronologically and according to the authors' surname. This arrangement reveals to some extent the growth and development of research under the direction of the program administrators. To provide access to these references both an author index and permuted title index are included.

An appendix is included which lists the journals in which these scientific publications appeared. This not only assists in identifying source material but indicates the wide range of scientific pursuit encompassed by the Bioscience Program Division. It is interesting to note here that the publications have appeared in 268 scientific and technical journals.

Also in the appendix is a list of the senior authors' affiliations which, when correlated with the directory of laboratory addresses, makes communication with a senior author possible. Copies or reprints of the citations embodied herein cannot be furnished by either NASA or BSCP but may be obtained by contacting the senior authors.

The authors gratefully acknowledge the technical assistance of Miss Sheila Rollins and of the secretarial staff in the preparation of this report.

Leslie A. Kulp, Ph.D.

## SCIENTIFIC PUBLICATIONS OF THE BEHAVIORAL BIOLOGY PROGRAM,

## NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

1961

1. PLISKOFF, S. S. Rate change effects during a pre-schedule change stimulus. J. Exp. Anal. Behav. 4:383-386. 1961.

1962

- \*2. BRADY, J. V. Psychophysiology of emotional behavior. <u>In</u> J. A. Bachrach, ed. Experimental Foundations of Clinical Psychology. New York, Basic Books, 1962.
- 3. COATS, A. C., and KELLAWAY, P. Observations pertaining to the mechanism of "masking". Fed. Proc. 21:358. 1962.
- \*4. FINDLEY, J. D. An experimental outline for building and exploring multioperant behavioral repertoires. J. Exp. Anal. Behav. Monograph 1. 1962.
  - 5. HODOS, W., ROSS, G., and BRADY, J. V. Complex response patterns during temporally spaced responding. J. Exp. Anal. Behav. 5:473-479. 1962.
- 6. HODOS, W., and BRADY, J. V. Electroencephalographic correlates of temporally spaced responding and avoidance behavior. J. Exp. Anal. Behav. 5:467-472. 1962.

- 7. AMES, L. A pulser device for automatic programming. J. Exp. Anal. Behav. 6:422. 1963.
- \*8. DAVISON, P. F. Cellular regulatory mechanisms. Neurosciences Research Program Bull. Vol. I. No. 2. Nov./Dec. 1963. Report Literature.
- \*9. FINDLEY, J. D. Detecting and recording the behavior of animals in a multi-enclosure programmed environment. Bio-Telemetry. New York, Pergamon Press. 1963.
- \*10. FINDLEY, J. D., and BRADY, J. V. A long-term study of human performance in a continuously programmed experimental environment. University of Maryland Space Research Laboratory Technical Report. Nov. 1963.
  - 11. HALBERG, F. Periodicity analysis a potential tool for biometeorologists. Int. J. Biometeorol. 7:167-191. 1963.
- \*12. HECHTER, O., and HALKERSTON, I. D. K. On the nature of macromolecular coding in neuronal memory. Neurosciences Research Program Bull. Vol. I. No. 1. Oct. 1963. Report Literature.

- 13. PEREZ-CRUET, J. Electrocardiographic conditioning with hypothalamic stimulation as an unconditional stimulus. Clin. Res. 11:395. 1963.
- 14. PEREZ-CRUET, J., TOLLINER, G., DUNN, G., MARVIN, S., and BRADY, J. V. Concurrent measurement of heart rate and instrumental avoidance behavior in the rhesus monkey. J. Exp. Anal. Behav. 6:61-64. 1963.
- 15. PLISKOFF, S. S. Rate change effects with equal potential reinforcements during the 'warning stimulus'. J. Exp. Anal. Behav. 6:557-562. 1963.
- \*16. SILVERSTEIN, A. M. Immunologic and psychic memory. Neurosciences
  Research Program Bull. Vol. I. No. 1. Oct. 1963. Report Literature.

- \*17. ALGAZI, V. R. A study of the performance of linear and nonlinear filters. Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, Mass., Technical Report 420. June 22, 1964.
- \*18. AUGENSTEIN, L., and VAN ZYTVELD, J. Macromolecular conformation changes as possible information processing mechanisms. <u>In</u> Symposium on the Role of Macromolecules in Complex Behavior at Kansas State University, p. 31. 1964.
- 19. BEER, B., HODOS, W., and MATTHEWS, T. J. Rate of intracranial self-stimulation as a function of reinforcement magnitude and density. Psychon. Sci. 1:321-322. 1964.
- \*20. BELLEVILLE, R. E., CLARK, F. C., and LANGE, K. O. The behavior of small animals under the accelerative conditions found in space travel.

  Washington, D. C., Nat. Aeron. Space Admin. Aug. 1964. (NASA TT F-9080)
- \*21. BELLEVILLE, R. E., CLARK, F. C., and LANGE, K. O. Uber das Verhalten kleiner Tiere unter raumfahrtbedingten Beschleuningungen. [On the behavior of small animals under the space flight conditions of acceleration]. In 13 Tagungsberichte der Deutsche Raketengesellschaft, Nr. 36. Hannover: EBO-Druck u. Verlag der Hermann Oberth-Gesellschaft, 1964.
  - 22. BENNETT, E. L., and CALVIN, M. Failure to train planarians reliably.

    Neurosciences Research Program Bull. Vol. II. No. 4, p. 3. July/Aug.

    1964. Report Literature.
  - 23. BERLEKAMP, E. R. Note on recurrent codes. IEEE Trans. IT-10 (3):257-258.

<sup>\*</sup>Note: These have not been verified for pagination, editors, date, publisher, etc.

- 24. BRADY, J. V. Behavior stress and physiological change: a comparative approach to the experimental analysis of some psychosomatic problems. Trans. N. Y. Acad. Sci. 26:483-496. 1964.
- \*25. BRADY, J. V. Instrumental behavior and psychophysiological change: a comparative approach to the experimental analysis of psychosomatic disorders. In E. E. Krapf, ed. Proceedings of the Meetings on Treatment and Prevention of Psychosomatic Disorders. Geneva, Switzerland, World Health Organization. 1964.
- 26. BRADY, J. V., and HODOS, W. Experimental analysis of complex behavioral repertoires under continuous environmental control. <u>In</u> Nat. Aeron. Space Admin. Symposium on Analysis of Central Nervous System and Cardiovascular Data Using Computer Methods, p. 334-356. Washington, D. C., 1964.
- 27. BROOKHOUSER, P., PEREZ-CRUET, J., and JUDE, J. R. The effect of cardiac arrest with closed chest massage on classical conditioning reflexes. Clin. Res. 12:440. 1964.
- 28. BRUCE, J. D. On the optimum quantization of stationary signals. IEEE Int. Conv. Rec. Pt. I., p. 118-124. 1964.
- 29. COATS, A. C. Physiological observations of auditory masking. Pt. I-II. Effect of masking intensity. J. Neurophysiol. 27:1002-1010. 1964.
- 30. CORNING, W. C. Evidence of right-left discrimination in planarians. J. Psychol. 58:131-159. 1964.
- 31. DENNIS, J. B. Distributed solution of network programming problems. IEEE Trans. CS-12 (2):176-184. 1964.
- 32. DENNIS, J. B. A multiuser computation facility for education and research. Commun. ACM 7:521-529. 1964.
- 33. DURLACH, N. I. Note on binaural masking-level differences at high frequencies. J. Acoust. Soc. Amer. 36:576-581. 1964.
- 34. EDEN, M. Note on short-term storage of information in vision. Percept. Mot. Skills 19:93-94. 1964.
- 35. EIGEN, M. Chemical means of information storage and readout in biological systems. Neurosciences Research Program Bull. Vol. II. No. 3, p. 11.

  May/June 1964. Report Literature.
- 36. ENGELI, M., and HALBERG, F. Spectral analysis of steroid rhythms in data at equal or unequal intervals. Fed. Proc. 23:897. 1964.
- 37. ERTEL, R., HALBERG, F., and UNGAR, F. Circadian system-phase dependent toxicity and other effects of SU-4885 in mice. J. Pharmacol. Exp. Ther. 146:395. 1964.
- 38. FERSTER, C. B. Arithmetic behavior in chimpanzees. Sci. Amer. 210:98-106. 1964.

- 39. FERSTER, C. B. A combination lock for automatic programming of two animals in a single experimental space. J. Exp. Anal. Behav. 7:197-198. 1964.
- 40. FRY, W. J., FRY, F. J., MALEK, R., and PANKAU, J. W. Quantitative neuro-anatomic studies implemented by ultrasonic lesions mammillary nuclei and associated complex of cat brain. J. Acoust. Soc. Amer. 36(10): 1795-1835. Oct. 1964.
- \*41. GALAMBOS, R. Cortical unit analysis and memory. Neurosciences Research Program Bull. Vol. II. No. 1. Jan./Feb. 1964. Report Literature.
- \*42. GALAMBOS, R. Research in demyelinating diseases. Neurosciences Research Program Bull. Vol. II. No. 2. Mar./Apr. 1964. Report Literature.
  - 43. GALICICH, J. G., HAUS, E., HALBERG, F., and FRENCH, L. A. Variance spectra of corticosteroid in adrenal venous effluent of dogs. Ann. N. Y. Acad. Sci. 117:281-291. 1964.
- 44. GERSTEIN, G. L., and KIANG, N. Y.-S. Responses of single units in the auditory cortex. Exp. Neurol. 10:1-18. 1964.
- \*45. GRONEMANN, U. F. Coding color pictures. Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, Mass., Technical Report 422. June 17, 1964.
  - 46. HALBERG, F. Organisms as circadian systems; temporal analysis of their physiologic and pathologic responses, including injury and death. <u>In</u> Walter Reed Army Institute of Research Symposium, Medical Aspects of Stress in the Military Climate, p. 1-36. Apr. 1964.
  - 47. HALBERG, F. Physiological rhythms. <u>In</u> J. D. Hardy, ed. Physiological Problems of Space Travel, p. 298-322. Springfield, Ill., Charles C. Thomas, 1964.
  - 48. HALBERG, F. Physiologic rhythms and bioastronautics. <u>In</u> K. E. Schafer, ed. Bioastronautics, p. 181-195. New York, Macmillan, 1964.
  - 49. HALBERG, F., PANOFSKY, H., DIFFLEY, M., STEIN, M., and ADKINS, G. Computer techniques in the study of biologic rhythms. Ann. N. Y. Acad. Sci. 15:695-720. 1964.
  - 50. HALL, J. L. Minimum detectable change in interaural time or intensity difference for brief impulsive stimuli. J. Acoust. Soc. Amer. 36: 2411-2413. 1964.
  - 51. HECHTER, O. The role of water structures in the molecular organization of cell membranes. Neurosciences Research Program Bull. Vol. II. No. 5, p. 36. Sept./Oct. 1964. Report Literature.
  - 52. HENDRY, D. P., and VAN TOLLER, C. Fixed-ratio punishment with continuous reinforcement. J. Exp. Anal. Behav. 7:293-300. 1964.

- \*53. HOLSINGER, J. L. Digital communication over fixed time-continuous channels with memory with special application to telephone channels.

  Research Laboratory of Electronics, Massachusetts Institute of Technology. Cambridge Mass., Technical Report 430. Oct. 20, 1964.
  - 54. HUANG, T. S. Pseudorandom scanning. IEEE Trans. COM-12 (3):105-107.
  - 55. KATZ, J. J. Mentalism in linguistics. Language 40(2):124-137. Apr.-June 1964.
  - 56. KATZ, J. J. Semantic theory and the meaning of 'good'. J. Philos. 61 (23):739-766. 1964.
  - 57. KATZ, J. J., and POSTAL, P. M. An integrated theory of linguistic description. Research Laboratory of Electronics, Massachusetts Institute of Technology. Cambridge, Mass., Special Technical Report No. 9, 1964. 178 p.
- \*58. KILMER, W. L., and McCULLOCH, W. S. Towards a theory of the reticular formation. <u>In Proceedings of the Fifth National Symposium on Human</u> Factors in Electronics, San Diego, Calif., May 5-6, 1964, p. 7-25.
- 59. LETTVIN, J. Y., PICKARD, W. F., McCULLOCH, W. S., and PITTS, W. A theory of passive ion flux through axon membranes. Nature 202(4939):1338-1339. June 27, 1964.
- 60. LEVINSON, P., FERSTER, C., NEIMANN, W., and FINDLEY, J. A method for training unrestrained primates to receive drug injections. J. Exp. Anal. Behav. 7:253-254. 1964.
- 61. LITTLE, M. S., and MORRIS, J. Glia bibliography. Neurosciences Research Program Bull. Vol. II. No. 6, (Suppl) Nov./Dec. 1964. 298 p.
- 62. MATTHEWS, G. H. A note on asymmetry in phrase structure grammars. Inform. Contr. 7:360-365. 1964.
- 63. MENDELL, L. M., and WALL, P. D. Presynaptic hyperpolarization: a role for fine afferent fibres. J. Physiol. 172:274-294. 1964.
- 64. MENYUK, P. Alternation of rules in children's grammar. J. Verbal Learning Verbal Behav. 3:480-488. 1964.
- 65. MENYUK, P. Comparison of grammar of children with functionally deviant and normal speech. J. Speech Hearing Res. 7:109-121. June 1964.
- 66. MENYUK, P. Syntactic rules used by children from preschool through first grade. Child Develop. 35:533-546. 1964.
- 67. MERMELSTEIN, P., and EDEN, M. Experiments on computer recognition of connected handwritten words. Inform. Contr. 7:255-270. 1964.
- 68. MIGLER, B. Effects of averaging data during stimulus generalization. J. Exp. Anal. Behav. 7:303-307. 1964.

- 69. MIGLER, B., and BRADY, J. V. Timing behavior and conditioned fear. J. Exp. Anal. Behav. 7:247-251. 1964.
- 70. MOROWITZ, H. J. Memory storage and low-temperature biology. Neurosciences Research Program Bull. Vol. II. No. 4, p. 25. July/Aug. 1964. Report Literature.
- 71. NAUTA, W. J. H. Some brain structures and functions related to memory.

  Neurosciences Research Program Bull. Vol. II. No. 5, p. 1. Sept./Oct.
  1964. Report Literature.
- 72. OJEMANN, R. G. Correlations between specific human brain lesions and memory changes. Neurosciences Research Program Bull. Vol. II. No. 3, p. 77. May/June 1964. Report Literature.
- 73. OPPENHEIM, A. V. Superposition in a class of nonlinear systems. IEEE Int. Conv. Rec. Pt. I, p. 171-177. 1964.
- 74. PEREZ-CRUET, J., JUDE, J. R., and GANTT, W. H. Peripheral versus central mechanisms in the conditioning of ectopic arrhythmias. Clin. Res. 12: 191. 1964.
- 75. PEREZ-CRUET, J., NEWTON, J. E. O., and GANTT, W. H. Systolic blood pressure changes during two beat sinus arrhythmia. The Physiologist 7:222.
  1964.
- 76. PICKARD, W. F., LETTVIN, J. Y., MOORE, J. W., TAKATA, M., POOLER, J., and BERNSTEIN, T. Caesium ions do not pass the membrane of the giant axon. Proc. Nat. Acad. Sci., U. S. 52(5):1177-1183. Nov. 1964.
- 77. RICHARDS, A. G., and HALBERG, F. Oxygen uptake rhythms in a cockroach gauged by variance spectra. Experientia 20:40-42. 1964.
- \*78. ROBERTS, E. The synapse as a cybernetic unit: a biochemist's fantasy.

  Neurosciences Research Program Bull. Vol. II. No. 1. Jan./Feb. 1964.

  Report Literature.
- \*79. ROBERTS, R. B. On retina-cortex connections and DNA coding. Neurosciences Research Program Bull. Vol. II. No. 1. Jan./Feb. 1964. Report Literature.
  - 80. ROBERTS, R. B. Self-induction and memory. Neurosciences Research Program Bull. Vol. II. No. 3, p. 39. May/June 1964. Report Literature.
  - 81. SACHS, M. B. Responses to acoustic stimuli from single units in the eighth nerve of the green frog. J. Acoust. Soc. Amer. 36:1956-1958. 1964.
  - 82. SCHETZEN, M. Measurement of correlation functions. Proc. Inst. Elec. Eng. (London) 111:2100-2104. 1964.
  - 83. SCHMITT, F. O. Molecules and memory. New Scientist 23(408):643-645.

- 84. SCHMITT, F. O., and DAVISON, P. F. Chemical, structural, and immunological studies of nerve axon protein. Ber. Bunsenges. Phys. Chem. 68 (8/9):887-889. 1964.
- \*85. SKLAR, J. R. Sequential measurement of multidimensional transducers.

  Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, Mass., Technical Report 431. Oct. 29, 1964.
  - 86. STEPHENS, G. J., HALBERG, F., and STEPHENS, G. C. The blinded fiddler crab: an invertebrate model of circadian desynchronization. Ann. N. Y. Acad. Sci. 117:386-406. 1964.
  - 87. TAPP, J. W., and CLARK, F. C. Another solid state timer. J. Exp. Anal. Behav. 7:431-432. 1964.
  - 88. TAUB, A. Local, segmental and supraspinal interaction with a dorsolateral spinal cutaneous afferent system. Exp. Neurol. 10(4):357-374. 1964.
  - 89. TEAS, D. C., and KIANG, N. Y.-S. Evoked responses from the auditory cortex. Exp. Neurol. 10:91-119. Aug. 1964.
  - 90. VALENSTEIN, E. S. Problems of measurement and interpretation with reinforcing brain stimulation. Psych. Rev. 71:415-437. 1964.
  - 91. VALENSTEIN, E. S., and BEER, B. Continuous opportunity for reinforcing brain stimulation. J. Exp. Anal. Behav. 7:183-184. 1964.
  - 92. VALENSTEIN, E. S., and VALENSTEIN, T. Interaction of positive and negative reinforcing neural systems. Science 145:1456-1458. 1964.
  - 93. VAN PILSUM, J. F., and HALBERG, F. Transamidinase activity in mouse kidney an aspect of circadian periodic enzyme activity. Ann. N. Y. Acad. Sci. 117:337-353. 1964.

- 94. ADEY, W. R. Biosatellite performance simulations. <u>In</u> W. R. Adey and L. D. Proctor, eds. The Analysis of Central Nervous System and Cardiovas-cular Data Using Computer Methods, p. 357-382. Washington, D. C. NASA. (NASA publ. SP-72) 1965.
- 95. ADEY, W. R. Concepts of cerebral organization arising from time series analysis of neurophysiological data. In W. R. Adey and L. D. Proctor, eds. The Analysis of Central Nervous System and Cardiovascular Data Using Computer Methods, p. 113-136. Washington, D. C., NASA. (NASA publ. SP-72) 1965.
- 96. ALGAZI, V. R. Generalized SNR and performance index of filters for waveform estimation. Proc. IEEE 53:725-726. 1965.
- 97. ALTMAN, J., and DAS, G. D. Postnatal origin of microneurons in the rat brain. Nature 207:935-956. 1965.
- 98. ARBIB, M., and BLUM, M. Machine dependence of degrees of difficulty.

  Proc. Amer. Math. Soc. 16:442-447. 1965.

- 99. ASCHOFF, J. Circadian rhythms in man. Science 148:1427-1432. 1965.
- 100. ASCHOFF, J. Significance of circadian rhythms for space flight. <u>In</u> C. Bedwell and H. Strughold, eds. Proceedings of the Third International Symposium on Bioastronautics and the Exploration of Space, San Antonio, p. 465-484. 1965.
- 101. BALDWIN, H. A., FRENK, S., and LETTVIN, J. Y. Glass-coated tungsten micro-electrodes. Science 148(3676):1462-1464. June 11, 1965.
- 102. BECKER, G. M., and WICKELGREN, W. Decisions based on conflicting and inaccurate observations. J. Math. Psychol. 2:180-189. 1965.
- 103. BEER, B., and TRUMBULE, G. Timing behavior as a function of amount of reinforcement. Psychon. Sci. 2:71-72. 1965.
- 104. BEVER, T., FODOR, J. A., and WEKSEL, W. On the acquisition of syntax: a critique of "contextual generalization". Psychol. Rev. 72:467-482. 1965.
- 105. BOARDMAN, C. J., and VAN TREES, H. L. Optimum angle modulation. IEEE Trans. COM-13 (4):452-469. Dec. 1965.
- 106. BOLLES, R. C. Consummatory behavior in rats maintained a-periodically.

  J. Comp. Physiol. Psychol. 60(2):239-243. 1965.
- 107. BOLLES, R. C. Effects of deprivation conditions upon the rat's home cage behavior. J. Comp. Physiol. Psychol. 60(2):244-248. 1965.
- 108. BOLLES, R. C., and STOKES, L. W. Rat's anticipation of diurnal and addiurnal feeding. J. Comp. Physiol. Psychol. 60(2):290-294. 1965.
- 109. BROOKHOUSER, P., and PEREZ-CRUET, J. The effect of cardiac arrest with closed chest massage on the EEG in dogs. Clin. Res. 13:203. 1965.
- 110. BROWN, J. E. Dendritic fields of retinal ganglion cells of the rat. J. Neurophysiol. 28:1091-1100. 1965.
- 111. BROWN, J. E., and ROJAS, J. A. Rat retinal ganglion cells: receptive field organization and maintained activity. J. Neurophysiol. 28:1073-1090. 1965.
- \*112. BRUCE, J. D. Optimum quantization. Research Laboratory of Electronics,
  Massachusetts Institute of Technology, Cambridge, Mass., Technical
  Report 429. Mar. 1, 1965.
  - 113. CAPRANICA, R. R. The evoked vocal response of the bullfrog. Massachusetts Institute of Technology Research Monograph No. 33, Cambridge, Mass., The M.I.T. Press, 1965. 110 p.
  - 114. CAVAGGIONI, A., and GOLDSTEIN, M. H. Facilitation and inhibition in the visual system after photic stimulation. Arch. Ital. Biol. 103:397-420. 1965.

- 115. CHOMSKY, N. Aspects of the theory of syntax. Cambridge, Mass., The M.I.T. Press, 1965. 251 p.
- 116. CHOMSKY, N., and HALLE, M. Some controversial questions in phonological theory. J. Linguistics 1(2):97-214. Oct. 1965.
- 117. CLARK, F. C. Emulsification of liquid monkey food. J. Exp. Anal. Behav. 8:16. 1965.
- 118. CLARK, F. C., and HULL, L. D. The generation of random interval schedules.

  J. Exp. Anal. Behav. 8:131-133. 1965.
- 119. COATS, A. C. Temperature effects on the peripheral auditory apparatus. Science 150:1481-1483. 1965.
- 120. COCKETT, A. T. K., CANNON, D. R., LIU, C. K., and KADO, R. T. Measurement of oxygen tension and saturation in the diagnosis of renal ischemic hypertension. Amer. Surg. 31:691-693. 1965.
- 121. COCKETT, A. T. K., MOORE, R. S., and KADO, R. T. The renal lymphatics and therapy of pyelonephritis. Brit. J. Urol. 37(6):650-653. Dec. 1965.
- 122. COCKETT, A. T. K., NAKAMURA, R. M., FINGERHUT, A. G., and KADO, R. T. The effect of megavoltage total body irradiation on experimental bladder calculogenesis. Invest. Urol. 3:33. 1965.
- 123. COCKETT, A. T. K., NAKAMURA, R. M., and KADO, R. T. Physiological factors in decompression sickness. Arch. Environ. Health 11:760-764. Dec. 1965.
- 124. COCKETT, A. T. K., NAKAMURA, R. M., and MIYADA, D. S. Urinary bladder calculi formed in rats at altitude. Arch. Environ. Health 11:810-813. Dec. 1965.
- 125. COCKETT, A. T. K., ROBERTS, A. P., and MOORE, R. S. Transport of reninangiotensin by renal lymphatics. Surg. Forum 16:492-493. 1965.
- 126. CDLBURN, H. S., and DURLACH, N. I. Time-intensity relations in binaural unmasking. J. Acoust. Soc. Amer. 38:93-103. 1965.
- 127. CORDEAU, J.-P., WALSH, J. T., and MAHUT, H. Variations dans la tramission des messages sensoriels en fonction des differents etats d'eveil et de sommeil. [Variations on the transmission of sensory messages and functions of different states of wakefulness and sleep]. <u>In Aspects Anatomo-Fonctionels de la Physiologie du Sommeil. CNRS Symposium, Lyon, 1963, Vol. 127, p. 477-532. Paris, 1965.</u>
- 128. CORKIN, S. Tactually-guided maze learning in man: effects of unilateral cortical excisions and bilateral hippocampal lesions. Neuropsychologia 3:339-351. 1965.
- 129. CORNING, W. C., and HAIGHT, J. An arthropod preparation suitable for chronic electrophysiological, biochemical and behavioral study. Science 148:394-395. 1965.

- 130. COX, V. C., and VALENSTEIN, E. S. Attenuation of aversive properties of peripheral shock by hypothalamic stimulation. Science 149:323-325. 1965.
- 131. CRYSTAL, T. H. Orthogonal detection to reduce common channel interference. Proc. IEEE 53:742-743. 1965.
- 132. DOGGENWEILER, C. F., and FRENK, S. Staining properties of lanthanum on cell membrane. Proc. Nat. Acad. Sci. 53:425-430. 1965.
- \*133. FAIR, C. M. Memory bibliography 1961-1964. Neurosciences Research Program Bull. Vol. III, No. 1 (Suppl) Apr. 7, 1965. Report Literature.
  - 134. FAIR, C. M. The organization of memory functions in the vertebrate nervous system. Neurosciences Research Program Bull. Vol. III, No 1, p. 27.

    Apr. 7, 1965. Report Literature.
  - 135. FERSTER, C. B., and HAMMER, C. Variables determining the effects of delay in reinforcement. J. Exp. Anal. Behav. 8:243-254. 1965.
- 136. FINDLEY, J. D., and AMES, L. A note on time out from avoidance with the chimpanzee. J. Exp. Anal. Behav. 8:419-423. 1965.
- 137. FINDLEY, J. D., and BRADY, J. V. Facilitation of large ratio performance by use of conditioned reinforcement. J. Exp. Anal. Behav. 8:125-129. 1965.
- 138. FODOR, J. A. Could meaning be an  $r_m$ ? J. Verb. Learn. Verb. Behav. 4(2): 73-82. 1965.
- 139. FODOR, J. A. Review of J. Carroll's "Language and Thought". Mod. Lang. J. 49(6):384-386. 1965.
- 140. FODOR, J. A., and BEVER, T. The psychological reality of linguistic segments. J. Verb. Learn. Verb. Behav. 4:414-421. 1965.
- 141. FODOR, J. A., and CHIHARA, C. Operationalism and ordinary language, a critique of Wittgenstein. Amer. Philos. Quart. 2(4):1-15. 1965.
- \*142. FORNEY, G. D. JR. Concatenated codes. Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, Mass., Technical Report 440. Dec. 1, 1965.
  - 143. FRY, W. J. Methods for completely deciphering the neuronal circuitry of brain structures. <u>In Digest of the 6th International Conference on Medical Electronics and Biological Engineering</u>, Tokyo, Japan, p. 278-283. 1965.
  - 144. GALICICH, J. G., HALBERG, F., FRENCH, L. A., and UNGAR, F. Effect of cerebral ablation on a circadian pituitary adrenocorticotropic rhythm in C mice. Endocrinology 76:895-901. 1965.
  - 145. GALLAGER, R. G. A simple derivation of the coding theorem and some applications. IEEE Trans. IT-11 (1):3-18. 1965.

- 146. GRAY, P. R., KIANG, N. Y.-S., and SHIPLEY, J. W. Probabilities with Spike discharges in auditory nerve fibers. (Abstr.) The Physiologist 8(3): 179. 1965.
- 147. GROSS, C. G. Aspects of the delayed alternation deficits produced by eletrical stimulation on monkeys. Psychon. Sci. 3:501-502. 1965.
- 148. GROSS, C. G., CHOROVER, S. L., and COHEN, S. M. Caudate, cortical, hippocampal and dorsal thalamic lesions in rats: alternation and Hebb-Williams maze performance. Neuropsychologia 3:53-68. 1965.
- 149. HALBERG, F. Some aspects of biologic data analysis; longitudinal and transverse profiles of rhythms. <u>In</u> J. Aschoff, ed. Circadian Clocks. Proceedings of the Feldafing Summer School, 1964, p. 13-22. Amsterdam, North-Holland Publ. Co., 1965.
- 150. HALBERG, F., ENGELI, M., HAMBURGER, C., and HILLMAN, D. Spectral resolution of low-frequency, small-amplitude rhythms in excreted ketosteroid; probably androgen-induced circaseptan desynchronization.

  Acta Endocrin. Suppl. 103:54. 1965.
- 151. HALBERG, F., GALICICH, J. G., UNGAR, F., and FRENCH, L. A. Circadian rhythmic pituitary adrenocorticotropic activity, rectal temperature and pinnal mitosis of starving, dehydrated C mice. Proc. Soc. Exp. Biol. Med. 118:414-419. 1965.
- 152. HALBERG, F., and HAMBURGER, C. Electronic computer techniques for the study of endocrine rhythms. Acta Endocrin. Suppl. 100:170. 1965.
- 153. HALBERG, F., SIFFRE, M., ENGELI, M., HILLMAN, D., and REINBERG, A. Etude en libre-cours des rythmes circadiens du pouls de l'alternance veille-sommeil et de l'estimation du temps pendant les deux mois de sejour souterrain d'un homme adulte jeune. [Broad study of the circadian rhythm of chickens with alternating sleepwakefulness and of the estimation of time by a young adult man during the two months of staying underground]. Comp. Rend. Acad. Sci. Paris 260:1259-1262. 1965.
- 154. HALL, J. L. Binaural interaction in the accessory superior-olivary nucleus of the cat. J. Acoust. Soc. Amer. 37:814-823. 1965.
- 155. HALL, J. L. Processing and transmitting information through the central nervous system. IEEE Student J. p. 30-34. May 1965.
- 156. HELD, R. Plasticity in sensorimotor systems. Sci. Amer. 213:84-94.
- 157. HENDRY, D. P. Acentral probability generating station. J. Exp. Anal. Behav. 8:447-449. 1965.
- \*158. HENDRY, D. P. Reinforcing value of information. University of Maryland, Space Research Laboratory Technical Report No. 65-1. 1965.
  - 159. HENDRY, D. P., and VAN TOLLER, C. Alleviation of conditioned suppression. J. Comp. Physiol. Psychol. 59:458-460. 1965.

- 160. HENNIE, F. C. One-tape, off-line turing machine computations. Inform. Contr. 8:553-578. 1965.
- 161. HENRY, J. P., MEEHAN, J. P., STEPHENS, P., et al. Arterial pressure in CBA mice as related to age. J. Gerontol. 20(2):239-243. Apr. 1965. 15 Refs.
- 162. HODOS, W. Motivational properties of long durations of rewarding brain stimulation. J. Comp. Physiol. Psychol. 59:219-224. 1965.
- 163. HUANG, T. S. Bounds on two-element-kind impedance functions. Electron. Lett. 1(2):29. 1965.
- 164. HUANG, T. S. PCM picture transmission. IEEE Spectrum 2(12):57-63. Dec. 1965.
- 165. HUANG, T. S. The power density spectrum of television random noise. Appl. Opt. 4:597-601. 1965.
- 166. HUANG, T. S. Some mapping properties of RC and RL driving-point impedance functions. IEEE Trans. CT-12 (2):257-259. 1965.
- 167. HUANG, T. S. The subjective effect of two-dimensional pictorial noise. IEEE Trans. IT-11 (1):43-53. 1965.
- 168. HUANG, T. S., and LEE, H. B. Bounds on impedance functions of R, \$\pm\$L, \$\pm\$C, T networks. J. Franklin Inst. 279(2):83-94. Feb. 1965.
- 169. JOHNSON, C. J. Some dielectric and electro-optic properties of BaTiO3 single crystals. Appl. Phys. Lett. 7(8):221-223. 1965.
- 170. KARTEN, H. J. Projections of optic tectum of the pigeon (Columba livia).

  Anat. Rec. 151:369. 1965.
- \*171. KATZ, J. J. The philosophy of language. <u>In</u> A. Danto, ed. Harper Guide to Philosophy. Harper and Row, New York, 1965.
  - 172. KELLAWAY, P. Technical details of data acquisition for the normative electroencephalographic reference library. <u>In</u> L. D. Proctor and W. R. Adey, eds. Symposium on the Analysis of Central Nervous System and Cardiovascular Data Using Computer Methods, p. 305-310. Washington, D. C., NASA, 1965. (NASA publ. SP-72)
  - 173. KIANG, N. Y.-S. Stimulus coding in the auditory nerve and cochlear nucleus. Acta Oto-Laryngol. 59:186-200. 1965.
  - 174. KIANG, N. Y.-S., PFEIFFER, R. R., WARR, W. B., and BACKUS, A. S. N. Stimulus coding in the cochlear nucleus. Ann. Otol. Rhinol. Laryngol. 74: 463-485. 1965.
  - 175. KIANG, N. Y.-S., and SACHS, M. B. Effect of acoustic stimuli on spontaneous spike discharges in auditory nerve fibers. (Abstr.) The Physiologist 8(3):208. 1965.

- 176. KIANG, N. Y.-S., WATANABE, T., THOMAS, E. C., and CLARK, L. F. Discharge patterns of single fibers in the cat's auditory nerve. Massachusetts Institute of Technology Research Monograph No. 35, The M.I.T. Press, Cambridge, Mass., 1965. 154 p.
- 177. LEE, Y. W., and SCHETZEN, M. Some aspects of the Wiener theory of nonlinear systems. Proceedings of the National Electronics Conference Vol. XXI, p. 759-764. 1965.
- 178. LEE, Y. W., and SCHETZEN, M. Measurement of the Wiener kernels of a non-linear system by cross-correlation. Int. J. Contr. 2(3):237-254. Sept. 1965.
- \*179. LEHNINGER, A. L. Supramolecular organization of enzyme and membrane systems.

  Neurosciences Research Program Bull. Vol. III, No. 3. May 28, 1965.

  Report Literature.
- 180. LIU, B., and KAHN, R. E. Optimum prefiltering in sampled data with read-in jitter. IEEE Int. Conv. Rec. Pt. 7, p. 127-133. 1965.
- 181. McCULLOCH, W. S. What's in the brain that ink may character? Proceedings of the 1964 International Congress for Logic, Methodology and Philosophy of Science, Jerusalem, 1964, p. 395-404. Amsterdam, North-Holland Publ. Co., 1965.
- 182. MANDELL, A. J. Biochemical aspects of rapid eye movement sleep. Amer. J. Psychiat. 122:391-401. 1965.
- 183. MANDELL, A. J., and RUBIN, R. T. Enzyme induction and the psychosomatic hypothesis. <u>In</u> Stress and Adaptation, p. 42-54. Forest Hospital Series, Des Plaines, Illinois, 1965.
- 184. MANDELL, A. J., and RUBIN, R. T. Indolylacroyl glycine excretion in man. Life Sciences 4:1657-1664. 1965.
- 185. MATTHEWS, G. H. Hidatsa syntax. The Hague, Mouton and Co., 1965. 299 p.
- 186. MAULSBY, R. L., KELLAWAY, P., and DIETLEIN, L. F. The normative electro-encephalographic data reference library. <u>In</u> L. D. Proctor and W. R. Adey, eds. Symposium on the Analysis of Central Nervous System and Cardiovascular Data Using Computer Methods, p. 421-432. Washington, D. C., NASA, 1965. (NASA Publ. SP-72)
- 187. MELZACK, R., and BURNS, S. K. Neurophysiological effects of early sensory restriction. Exp. Neurol. 13:163-175. 1965.
- 188. MELZACK, R., and WALL, P. D. Pain mechanisms: a new theory. Science 150(3699):971-979. Nov. 19, 1965.
- 189. MENDELL, L. M., and WALL, P. D. Response of single dorsal cord cells to peripheral cutaneous unmyelinated fibers. Nature 206(4979):97-99. 1965.
- 190. MENDELSON, J., and CHOROVER, S. L. Lateral hypothalamic stimulation in satiated rats: T-maze learning for food. Science 149:559-561. 1965.

- 191. NEWTON, J. E. O., and PEREZ-CRUET, J. Cardiovascular responses to novel and conditional stimuli evaluated by successive beats. The Physiologist 8:242. 1965.
- \*192. NIESSEN, C. W. An experimental facility for sequential decoding. Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, Mass., Technical Report 450. Sept. 13, 1965.
- \*193. OPPENHEIM, A. V. Superposition in a class of nonlinear systems. Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, Mass., Technical Report 432. Mar. 31, 1965.
- 194. PEREZ-CRUET, J. Blood pressure and heart rate changes during sinus arrhythmia. Clin. Res. 13:527. 1965.
- 195. PEREZ-CRUET, J. The effect of person on heart rate in monkeys. Clin. Res. 14:257. 1965.
- 196. PEREZ-CRUET, J., McINTYRE, R., and PLISKOFF, S. S. Blood pressure and heart rate changes in dogs during hypothalamic self-stimulation. J. Comp. Physiol. Psychol. 60:373-381. 1965.
- 197. PEREZ-CRUET, J., NEWTON, J. E. O., and GANTT, W. H. Sinus arrhythmia during panting. Fed. Proc. 24:278. 1965.
- 198. PFAFF, D. W. Autoradiographic and implantation studies of sex hormones.

  <u>In</u> J. Money, ed. Sex Research, New Developments, p. 219-234. New York, Holt, Rinehart and Winston, 1965.
- 199. PFEIFFER, R. R., and KIANG, N. Y.-S. Spike discharge patterns of spontaneous and continuously stimulated activity in the cochlear nucleus of anesthetized cats. Biophys. J. 5:301-316. 1965.
- 200. PITTENDRIGH, C. S. Biological clocks the functions, ancient and modern, of circadian oscillations. <u>In</u> Science in the Sixties, Vol. VIII: 96-111. University of New Mexico, 1965.
- 201. PITTENDRIGH, C. S. On the biological problems to be attacked with a series of U. S. satellites in 1966. <u>In</u> M. Florkin, ed. Life Sciences and Space Research III, Vol. 3, p. 207-214. Amsterdam, North-Holland Publ. Co., 1965.
- \*202. ROBERTSON, J. D. The synapse: morphological and chemical correlates of function. Neurosciences Research Program Bull. Vol. III, No. 4. Aug. 20, 1965. Report Literature.
- \*203. SAVAGE, J. E. The computation problem with sequential decoding. Research Laboratory of Electronics, Massachusetts Institute of Technology, Technical Report 439. Feb. 16, 1965.
  - 204. SCHETZEN, M. Determination of optimum nonlinear systems for generalized error criteria based on the use of gate functions. IEEE Trans. IT-11 (1):117-125. 1965.

- 205. SCHETZEN, M. Measurement of the kernels of a nonlinear system of finite order. Int. J. Contr. 1(3):251-263. 1965.
- 206. SCHETZEN, M. Synthesis of a class of nonlinear systems. Int. J. Contr. 1(5):401-414. 1965.
- 207. SCHILLER, P. H., and SMITH, M. C. A comparison of forward and backward masking. Psychon. Sci. 3:77-78. 1965.
- 208. SCHMITT, F. O. The physical basis of life and learning. Science 149 (3687):931-936. 1965.
- 209. SCHMITT, F. O., and DAVISON, P. F. Brain and nerve proteins: functional correlates. Neurosciences Research Program Bull. Vol. III, No. 6, p. 1. Dec. 31, 1965. Report Literature.
- 210. SCHMITT, F. O., and DAVISON, P. F. Role of protein in neural function.

  Neurosciences Research Program Bull. Vol. III, No. 6, p. 55. Dec. 31,
  1965. Report Literature.
- 211. SCHNEIDER, G. E., and GROSS, C. G. Curiosity in the hamster. J. Comp. Physiol. Psychol. 59:150-152. 1965.
- 212. SEKULER, R., and BAUER, J. Discrimination of hefted weights; effect of stimulus duration. Psychon. Sci. 3:255-256. 1965.
- 213. SIEBERT, W. M. Some implications of the stochastic behavior of primary auditory neurons. Kybernetik 2(5):206-215. 1965.
- 214. SIMON, W. The real-time sorting of neuro-electric action potentials in multiple unit studies. EEG Clin. Neurophysiol. 18:192-195. 1965.
- 215. SNYDER, D. L. Some useful expressions for optimum linear filtering in white noise II. Proc. IEEE 53:1254-1255. 1965.
- \*216. STARK, L., and DICKSON, J. F. Mathematical concepts of central nervous system function. Neurosciences Research Program Bull. Vol. III, No. 2. May 14, 1965. Report Literature.
  - 217. STEPHENS, G., and HALBERG, F. Methodologic aspects of human time estimations with special reference to 24-hour synchronized circadian rhythms. Nursing Res. 14:310-317. 1965.
  - 218. TAUB, A., and BISHOP, P. O. The spinocervical tract: dorsal-column linkage, conduction velocity, primary velocity, primary afferent spectrum. Exp. Neurol. 13:1-21. 1965.
  - 219. TEUBER, H.-L. Disorders of higher tactile and visual functions. Neuro-psychologia 3:287-294. 1965.
- \*220. TEUBER, H.-L. Effects of occipital lobe lesion on pattern vision.

  Seventh International Congress on Neurology, Vienna, 1965. Supp.

  Congr. Proc., p. 79-102. 1965.
- 221. TEUBER, H.-L. Some needed revision of the classical views of agnosia. Neuropsychologia 3:271-278. 1965.

- 222. THOMAS, J. R., and SHERMAN, J. A. Time out from a fixed ratio schedule. Psychon. Sci. 3:489-490. 1965.
- 223. TREMOR, J. W., HAUS, E., SEBESTA, P. D., KEITH, C., HALBERG, F., LAKATUA, D., SCHMITT, O. H., and PITTS, G. Phase difference tests longitudinal and transverse on circadian rhythms of C mice. Fed. Proc. 24:129. Mar.-Apr. 1965.
- 224. TRETIAK, O. J., and HUANG, T. S. Resistance of an N-dimensional cube. Proc. IEEE 53:1271-1272. 1965.
- \*225. TRUMBLE, G. H. Control of temporally spaced responding by a repetitive stimulus. University of Maryland, Space Research Laboratory Technical Report No. 65-2. 1965.
- 226. TWITCHELL, T. Attitudinal reflexes. J. Amer. Phys. Ther. Ass. 45:411-418. 1965.
- 227. TWITCHELL, T. Book review: cerebral localization and organization.
  G. Schaltenbrand and C. N. Woolsey, eds. Psychosom. Med. 27:585.
  1965.
- 228. TWITCHELL, T. Variations and abnormalities in motor development. J. Amer. Phys. Ther. Ass. 45:424-430. 1965.
- 229. VALENSTEIN, E. S. Independence of approach and escape reactions to electrical stimulation of the brain. J. Comp. Physiol. Psychol. 60:20-30. 1965.
- 230. VALENSTEIN, E. S., and WEBER, M. L. The potentiation of insulin coma by saccharin. J. Comp. Physiol. Psychol. 60:443-446. 1965.
- 231. VAN TREES, H. L. A comparison of optimum angle modulation systems and ratedistortion bounds. Proc. IEEE 53:2123-2124. 1965.
- 232. VAUGHAN, E. G., and HULL, R. C. Functional relations between stimulus intensity and photically evoked cerebral responses in man. Nature 206: 720-722. 1965.
- 233. WALL, P. D. Impulses originating in the region of dendrites. J. Physiol. 180:116-133. 1965.
- \*234. WEISS, P. A. Specificity in the neurosciences. Neurosciences Research Program Bull. Vol. III, No. 5. Oct. 5, 1965. Report Literature.
  - 235. WICKELGREN, W. A. Acoustic similarity and intrusion errors in short-term memory. J. Exp. Psychol. 70:102-108. 1965.
  - 236. WICKELGREN, W. A. Distinctive features and errors in short-term memory for English vowels. J. Acoust. Soc. Amer. 38:583-588. 1965.
  - 237. WICKELGREN, W. A. Short-term memory for phonemically similar lists. Amer. J. Psychol. 78:567-574. 1965.
  - 238. WICKELGREN, W. A. Short-term memory for normal and whispered letters.
    Nature 206:851-852. 1965.

- 239. WICKELGREN, W. A. Short-term recognition memory for single digits and pairs of digits. J. Exp. Psychol. 70:479-489. 1965.
- 240. WICKELGREN, W. A. Similarity and intrusions in short-term memory for consonant-vowel diagrams. Quart. J. Exp. Psychol. 17:241-246. 1965.
- 241. WYKE, M., and CHOROVER, S. L. Comparison of spatial discrimination in the temporal and nasal sectors of the monocular visual field. Percept.

  Mot. Skills 20:1037-1045. 1965.

- 242. ADEY, W. R. Matters relating to the state of sleep in animals. <u>In</u> J. B Dillon and C. M. Ballinger, eds. Anesthesiology and the Nervous System, p. 36-65. University of Utah Press, 1966.
- 243. ADEY, W. R., ELUL, R., WALTER, R. D., and CRANDALL, P. H. The cooperative behavior of neuronal populations during sleep and mental states. Proc. Amer. Electroenceph. Soc. p. 66. Oct. 1966.
- 244. ADEY, W. R., KADO, R. T., and WALTER, D. O. Analysis of baseline and Gemini flight GT-7 data with specification of on-line computing requirements. Proc. Second NASA Annual Biomed. Res. Conf. p. 353-378. 1966.
- 245. ALTMAN, J. Autoradiographic examination of behaviorally induced changes in the protein and nucleic acid metabolism of the brain. <u>In</u> J. Gaito, ed. Macromolecules and Behavior, p. 103-126. New York, Appleton-Century Croft Publ., 1966.
- \*246. ALTMAN, J. Behavioral influences on the utilization of (<sup>3</sup>H) leucine by the brain. May 1965 Brugge Symposium. <u>In</u> H. Peters, ed. Protides of the Biological Fluids. Elsevier Publ. Cq., 1966.
- \*247. ALTMAN, J. Organic foundations of anima1 behavior. New York, Holt, Rinehart and Winston, 1966.
  - 248. ALTMAN, J., and DAS, G. D. Autoradiographic and histological studies of postnatal neurogenesis. J. Comp. Neurol. 124:319-336. 1966.
  - 249. BOLLES, R. C., and OGLIVIE, R. D. Effects of adjurnal lighting and feeding on the rat's diurnal activity cycle. J. Comp. Physiol. Psychol. 62 (1):141-143. 1966.
  - 250. BROMBERGER, S. Why-questions. <u>In Mind and Cosmos</u>, Vol. III, p. 86-111. University of Pittsburgh Series in the Philosophy of Science, University of Pittsburgh Press, 1966.
  - 251. BUCHWALD, J. S., HALAS, E. S., and SCHRAMM, S. Relationships of neuronal spike populations and EEG activity in chronic cats. Electroence-phalog. Clin. Neurophysiol. 21:124-130. 1966.
  - 252. BURNS, S. K., and MELZACK, R. A method for analyzing variations in evoked responses. EEG Clin. Neurophysiol. 20:407-409. 1966.

- \*253. BUSH, A. M. Some techniques for the synthesis of nonlinear systems.

  Research Laboratory of Electronics, Massachusetts Institute of
  Technology, Cambridge, Mass., Technical Report 441. Mar. 25, 1966.
- 254. CHOROVER, S. L., and COLE, M. Delayed alternation performance in patients with cerebral lesions. Neuropsychologia 4:1-7. 1966.
- 255. CHOROVER, S. L., and SCHILLER, P. A re-examination of "prolonged retrograde amnesia" in one-trial learning. J. Comp. Physiol. Psychol. 61:34-41. 1966.
- 256. COCKETT, A. T. K., ROBERTS, A. P., and MOORE, R. S. Significance of antibacterial levels in the renal lymph during treatment of pyelonephritis. J. Urol. 95:164-168. 1966.
- 257. CORNING, W. C. Retention of a discrimination following regeneration in planarians. Psychon. Sci. 5:17. 1966.
- 258. COX, V. C., and VALENSTEIN, E. S. The effects of mesencephalic central grey lesions on responses to reinforcing brain stimulation. Psychon. Sci. 4:1-2. 1966.
- \*259. EBERT, P. M. Error bounds for parallel communication channels. Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, Mass., Technical Report 448. Aug. 1, 1966.
  - 260. FERSTER, C. B. Animal behavior and mental illness. Psychol. Rec. 16: 345-356. 1966.
- \*261. FERSTER, C. B., and HAMMER, C. Synthesizing the components of arithmetic behavior. <u>In</u> W. Honig, ed. Operant Behavior: Areas of Research and Application. New York, Appleton-Century-Crofts, 1966.
- \*262. FINDLEY, J. D. Programmed environments for the experimental analysis of behavior. <u>In</u> W. Honig, ed. Operant Behavior and Psychology. New York, Appleton-Century-Crofts, 1966.
- 263. FRY, W. J. Mammillary complex of cat brain aspects of quantitative organization. Anat. Rec. 154(1):175-184. Jan. 1966.
- 264. GARRETT, M., BEVER, T., and FODOR, J. A. The active use of grammar in speech perception. J. Percept. Psychophys. 1:30-32. 1966.
- \*265. GOLD, B. Word-recognition computer program. Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, Mass., Technical Report 452. June 15, 1966.
- \*266. GRAY, P. R. A statistical analysis of electrophysiological data from auditory nerve fibers in cat. Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, Mass., Technical Report 451. June 21, 1966.
  - 267. HALBERG, F., ENGEL, R., SWANK, R., SEAMAN, G., and HISEN, W. Cosinor-Auswertung circadianer Rhythmen mit niedriger Amplitude im menschlichen Blut. [Cosinor-evaluation of circadian rhythm with low amplitude in human blood]. Phys. Med. Reh. 7:101-110. 1966.

- 268. HALBERG, F., and FALLIERS, C. J. Variability of physiologic circadian crests in groups of children studied "transversely". Pediatrics 68: 741-746. 1966.
- 269. HALL, R. D., CLAYTON, R. J., and MARK, R. G. A device for the partial restraint of rats in operant conditioning studies. J. Exp. Anal. Behav. 9(2):143-145. 1966.
- 270. HAUS, E., and HALBERG, F. Circadian phase diagrams of oral temperature and urinary functions in a healthy man studied longitudinally. Acta Endocrin. 51:215-223. 1966.
- 271. HAUS, E., and HALBERG, F. Persisting circadian rhythm in hepatic glycogen of mice during inanition and dehydration. Experientia 22:113. 1966.
- \*272. HELD, R. Plasticity in sensorimotor coordination. Proc. 18th Internat. Congr. Psychol. Moscow, 1966.
- \*273. HELD, R., and HEIN, A. On the modifiability of form perception. <u>In</u> J. C. Mott-Smith, W. Wathen-Dunn, H. Blum, and P. Lieberman, eds. Symposium on Models for Perception of Speech and Visual Forms. 1966.
- 274. HENDRY, D. P., and DILLOW, P. V. Observing behavior during interval schedules. J. Exp. Anal. Behav. 9:337-349. 1966.
- \*275. HENDRY, D. P., SWITALSKI, D., and YARCZOWER, M. The effect of discrimination training on generalization of conditioned suppression. University of Maryland, Space Research Laboratory Technical Report No. 66-3. 1966.
- 276. HENNIE, F. C. On-line turing machine computations. IEEE Trans. EC-15 (1):35-44. Feb. 1966.
- 277. HODOS, W., and KARTEN, H. J. Brightness and pattern discrimination deficits after lesions of nucleus rotundus in the pigeon. Exp. Brain Res. 2: 151-167. 1966.
- \*278. HODOS, W., and TRUMBULE, G. Strategies of schedule preference in the chimpanzee. University of Maryland, Space Research Laboratory Technical Report No. 66-4. 1966.
  - 279. HOSHIZAKI, T., ADEY, W. R., and HAMMER, K. C. An investigation of barley seedling growth responses to simulated weightlessness induced by the Nogravatron, a two axis rotation apparatus. Planta Berlin 69:218-229. 1966.
  - 280. HUANG, T. S. Digital picture coding. Proceedings of the National Electronics Conference, Vol. XXII, p. 793-797. 1966.
  - 281. HUANG, T. S., and GABRIELIAN, A. Minimizing the maximum signal energy. IEEE Trans. COM-14 (2):187-188. Apr. 1966.
  - 282. JERGER, J., ALFORD, B. R., COATS, A. C., and FRENCH, B. Effect of very low frequency tones on auditory threshold. J. Speech Hearing Res. 9:151-160. 1966.

- 283. KATZ, J. J. The philosophy of language. New York and London, Harper and Row, Publ. 1966. 326 p.
- 284. KATZ, Y. J., COCKETT, A. T. K., and MOORE, R. S. A simplified method for the extraction and bioassay of renin. Invest; Urol. 4(1):64-68.
- 285. KOERBER, K. C., PFEIFFER, R. R., WARR, W. B., and KIANG, N. Y.-S. Spontaneous spike discharge from single units in the cochlear nucleus after destruction of the cochlea. Exp. Neurol. 16:119-130. 1966.
- 286. KOLERS, P. A. Interlingual facilitation of short-term memory. J. Verb. Learning Verb. Behav. 5(3):314-319. June 1966.
- 287. KOLERS, P. A. Reading and talking bilingually. Amer. J. Psychol. 79: 357-376. 1966.
- 288. KOLERS, P. A., and KATZMAN, M. T. Naming sequentially presented letters and words. Language and Speech 9(2):84-95. Apr.-June 1966.
- 289. LECOURS, A.-R. Serial order in writing: a study of misspelled words in "developmental dysgraphia". Neuropsychologia 4:221-241. 1966.
- 290. LEE, D. A., COCKETT, A. T. K., CAPLAN, B., and CHIAMORI, N. Y. Urinary LDH (Lactic Dehydrogenase) activity in the diagnosis of urologic neoplasms. J. Urol. 95:77. 1966.
- 291. McCULLOCH, W. S., and KILMER, W. L. Introduction to the problem of the reticular formation. <u>In</u> Automata Theory, p. 269-277. New York, Academic Press, 1966.
- \*292. MACDONALD, J. S. Experimental studies of handwriting signals. Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, Mass., Technical Report 443. Mar. 31, 1966.
  - 293. MANDELL, A. J., BRILL, P. L., MANDELL, M. P., RODNICK, J., RUBIN, R. T., SHEFF, R., and CHAFFEY, B. Urinary excretion of 3-methoxy-4-hydroxymandelic acid during dreaming sleep in man. Life Sciences 5: 169-175. 1966.
  - 294. MANDELL, A. J., CHAFFEY, B., MANDELL, M. P., RODNICK, J., BRILL, P. L., SHEFF, R., and RUBIN, R. T. Urine volume and osmolarity changes during dreaming sleep in man. Science 151:1558-1560. 1966.
  - 295. MANDELL, A. J., and RUBIN, R. T. ACTH induced increase in tryptophan turnover along induceable pathways in man. Life Sciences 5(13): 1153-1162. 1966.
  - 296. MANDELL, M. P., MANDELL, A. J., RUBIN, R. T., RODNICK, J., BRILL, P. L., SHEFF, R., and CHAFFEY, B. Activation of the pituitary-adrenal axis during rapid eye movement sleep in man. Life Sciences 5:583-588.
  - 297. MATTHEWS, G. H. A conjecture concerning non-context-free languages. ICC Bull. 5:169-178. 1966.

- 298. MAULSBY, R. L. Electroencephalogram during orbital flight. Aerosp. Med. 37:1022-1026. 1966.
- 299. MAULSBY, R. L., FROST, J. D., and GRAHAM, M. H. A simple electronic method for graphing EEG sleep patterns. Electroencephalogr. Clin. Neurophysiol. 21:501-503. 1966.
- 300. MOSES, J. Solution of systems of polynomial equations by elimination. Communs. ACM 9(8):634-637. Aug. 1966.
- 301. MURAWSKI, B. J., and BURNS, S. K. Daily correlation of adrenal steroids and alpha frequency in the EEG: a demonstration. J. Appl. Physiol. 21:549-553. 1966.
- \*302. NAUTA, W. J. H., and KOELLA, W. P. Sleep, wakefulness, dreams and memory. Neurosciences Research Program Bull. Vol. IV, No. 1. May 13, 1966. Report Literature.
- 303. NAUTA, W. J. H., and MEHLER, W. R. Efferent connections of the lentiform nucleus in the monkey. Brain Res. 1:3-42. 1966.
- 304. NAUTA, W. J. H., and RAMON-MOLINER, E. The isodendritic core of the brain stem. J. Comp. Neurol. 126:311-336. 1966.
- 305. NELSON, D. E. Statistics of switching-time jitter for a tunnel diode threshold-crossing detector. IEEE Int. Conv. Rec. Pt. 7, p. 288-295. 1966.
- \*306. ORME-JOHNSON, D., and DARDANO, J. D. Disruption of punished and non-punished behavior by stimulus change. University of Maryland, Space Research Laboratory Technical Report No. 66-5. 1966.
- \*307. ORME-JOHNSON, D., and HODOS, W. Superstitious chaining during temporal discrimination. University of Maryland, Space Research Laboratory Technical Report No. 66-6. 1966.
- \*308. PARENTE, R. B. Functional analysis of systems characterized by nonlinear differential equations. Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, Mass., Technical Report 444.

  July 15, 1966.
- 309. PEREZ-CRUET, J., and GAERTNER, R. The cardiodynamics of cardiac conditional reflexes. Clin. Res. 14:257.
- 310. PEREZ-CRUET, J., PLUMLEE, L. A., and NEWTON, J. E. O. Chronic basal blood pressures in unanesthetized dogs using the ring-catheter technique. Proceedings of the Symposium on Biomedical Engineering, Marquette University, ed., Vol. I, p. 383-386. 1966.
- 311. PFEIFFER, R. R. Classification of response patterns of spike discharges for units in the cochlear nucleus: tone-burst stimulation. Exp. Brain Res. 1:220-235. 1966.
- 312. PICKARD, W. F. On the propagation of the nervous impulse down medullated and unmedullated fibers. J. Theor. Biol. 11:30-45. 1966.

- 313. PITTENDRIGH, C. S. The circadian oscillation in (<u>Drosophila pseudo-obscura</u>) pupae: a model for the photoperiodic clock. Pflanzen-physiol. 54(4):275-307. 1966.
- 314. RABINER, L. R., LAURENCE, C. L., and DURLACH, N. I. Further results on binaural unmasking and the EC model. J. Acoust. Soc. Amer. 40:62-70. 1966.
- 315. REINBERG, A., HALBERG, F., GHATA, J., and SIFFRE, M. Spectre thermique (rythmes de la temperature rectale) d'une femme adulte saine avant, pendant et apres son isolement souterrain de trois mois. [Thermic spectrum (rhythm of the rectal temperature) of one healthy female adult before, during and after her isolation underground for three months]. Compt. Rend. Acad. Sci. Paris 262:782-785. 1966.
- 316. RICHARDS, W. A. Attenuation of pupil response during binocular rivalry. Vision Research 6:239-240. 1966.
- 317. RICHARDS, W. A. Photoreceptor latency, adaptation level and metacontrast. Biophysics J. 6:127. 1966.
- 318. ROBINSON, B. W. A new model of alimentary systems. Trans. Amer. Neurol. Ass. 91:326. 1966.
- 319. ROBINSON, B. W., and MISHKIN, M. Ejaculation evoked by stimulation of the preoptic area in monkey. Physiol. Behav. 1:269-272. 1966.
- 320. ROJAS, E., LETTVIN, J. Y., and PICKARD, W. F. A demonstration of ion-exchange phenomena in phospholipid mono-molecular films. Nature 209(5026):886-887. Feb. 26, 1966.
- 321. ROSENBLITH, W. A. Physics and biology where do they meet? Phys. Today 19(1):23-34. Jan. 1966.
- 322. RUBIN, R. T., and MANDELL, A. J. Adrenocortical function in pathological emotional states. Amer. J. Psychiat. 123:387-400. 1966.
- 323. RUBIN, R. T., MANDELL, A. J., and CRANDALL, P. Corticosteroid responses to limbic stimulation in man: localization of stimulus sites. Science 153(3737):767-768. Aug. 12, 1966.
- 324. RUDEL, R. G., TEUBER, H.-L., and TWITCHELL, T. E. Unusual sensory status in congenital encephalopathy. Neurology 16:313. 1966.
- 325. SCHILLER, P. H. Forward and backward masking as a function of relative overlap and intensity of test and masking stimuli. J. Percept. Psychophys. 1:161-164. 1966.
- 326. SCHILLER, P. H., and SMITH, M. C. Detection in metacontrast. J. Exp. Psychol, 71:32-39. 1966.
- 327. SCHMITT, F. O. Molecular and ultrastructural correlates of function in neurons, neuronal nets, and the brain. Die Naturwissenschaften 53 (3):71-79. 1966.

- 328. SCHMITT, F. O. Molecular parameters in memory and learning. <u>In</u> J. Wortis, ed. Recent Advances in Biological Psychiatry, Vol. VIII, p. 225-233. New York, Plenum Press, 1966.
- \*329. SCHMITT, F. O. New and strange systems. <u>In</u> F. Sweeney, ed. The Knowledge Explosion: Liberation and Limitation (The Centennial Colloquium at Boston College). New York, Farrar, Straus and Giroux, 1966.
- 330. SCHMITT, F. O., and MELNECHUK, T., eds. Neurosciences Research Symposium Summaries, Vol. 1. Cambridge, Massachusetts, M.I.T. Press, 1966. 570 p.
- 331. SCHWARTZ, M., MANDELL, A. J., GREEN, R., and FERMAN, R. Mood, motility, and 17-hydroxycorticoid excretion: a polyvariable case study. Brit. J. Psychiat. 112:149-156. 1966.
- 332. SIFFRE, M., REINBERG, A., HALBERG, F., GHATA, J., PERDRIEL, G., and SLING, R. L'isolement souterrain prolonge. Etude de deux sujets adultes sains avant, pendant et apres cet isolement. [Prolonged isolation underground. The study of two healthy adult subjects before, during and after their isolation]. Presse Medicale 74:915-919. 1966.
- 333. SPOONER, C. E., and WINTERS, W. D. Distribution of monoamines and regional uptake of DL-norepinephrine-7-H<sup>3</sup> in the avian brain. The Pharmacologist 8:189. 1966.
- 334. SQUIRE, L. R. Transfer of habituation using spreading depression. Psychon. Sci. 5:261-262. 1966.
- 335. STRUMWASSER, F., and BEHR, R. Prolonged in vitro culture and autoradiographic studies of neurons in <u>Aplysia</u>. Fed. Proc. 25:512. 1966.
- 336. STUBBS, A., and THOMAS, J. R. Stimulus change effects on matching to sample performance. Psychon. Sci. 5:115-116. 1966.
- 337. TEUBER, H.-L. Alterations in perception after brain injury. <u>In</u> J. C. Eccles, ed. The Brain and Conscious Experience, p. 182-216. New York, Springer Verlag, 1966.
- 338. TEUBER, H.-L. The lesson of focal brain injury. Proceedings of the 18th International Congress on Psychology, Moscow 26:12-18. 1966.
- \*339. TEUBER, H.-L. Preface to A. R. Luria: Higher Cortical Functions in Man. New York, Basic Books, 1966.
  - 340. TEUBER, H.-L. Remarks on LSD. <u>In</u> Innisfree, p. 27-31. May 1966.
  - 341. TEUBER, H.-L. Some behavioral consequences of frontal-lobe lesions in rodents, carnivores and primates. Proceedings of the 18th International Congress on Psychology, Moscow 10:90-96. 1966.
  - 342. TEUBER, H.-L. Summation: convergences, divergences, lacunae. <u>In</u> J. C. Eccles, ed. The Brain and Conscious Experience, p. 575-585. New York, Springer Verlag, 1966.

- 343. THOMAS, J. R. Avoidance of a return to the first component of a chain from the terminal component. J. Exp. Anal. Behav. 9:435-441. 1966.
- 344. THOMAS, J. R., and STUBBS, A. Enhancement of fixed-ratio performance by briefly presented conditioned reinforcing stimuli. Psychon. Sci. 5: 329-330. 1966.
- \*345. TWITCHELL, T., LECOURS, A.-R., RUDEL, R. G., and TEUBER, H.-L. Minimal cerebral dysfunction in children: motor deficits. Progress of the 91st Annual Meeting of the American Neurological Association, June 13-15, 1966, p. 110-111.
- 346. VALENSTEIN, E. S., and CAMPBELL, J. F. The medial forebrain bundle-lateral hypothalamic area and reinforcing brain stimulation. Amer. J. Physiol. 210:270-274. 1966.
- 347. VAN TREES, H. L. Analog communication over randomly time-varying channels. IEEE Trans. IT-12 (1):51-63. Jan. 1966.
- 348. VAN TREES, H. L. Bounds on the accuracy attainable in the estimation of continuous random processes. IEEE Trans. IT-12 (3):298-305. July 1966.
- 349. WALK, R. D. Perceptual learning and the discrimination of wines. Psychon. Sci. 5:57-58. 1966.
- 350. WALK, R. D. Presentation of laboratory experiments through motion picture films. Percept. Mot. Skills 22:723-730. 1966.
- 351. WALK, R. D. Studying depth perception with the visual cliff. Today 10(2):4-7. 1966.
- 352. WASSERMAN, G. S. Brightness enhancement in intermittent light; variation of luminance and light-dark ratio. J. Opt. Soc. Amer. 56:242-250. 1966.
- 353. WICKELGREN, W. A. Phonemic similarity and interference in short-term memory for single letters. J. Exp. Psychol. 71:396-404. 1966.
- 354. WICKELGREN, W. A. Short-term recognition memory for single letters and phonemic similarity of retroactive interference. Quart. J. Exp. Psychol. 18:55-62. 1966.
- 355. WIENER, F. M., PFEIFFER, R. R., and BACKUS, A. S. N. On the sound pressure transformation by the head and auditory meatus of the cat. Acta Oto-Laryngol. 61:255-269. 1966.
- 356. WOZENCRAFT, J. M., and KENNEDY, R. S. Modulation and demodulation for probabilistic coding. IEEE Trans. IT-12 (3):291-297. July 1966.

## No Date of Publication

- \*357. ADEY, W. R. The organization of cerebral tissue in transaction and storage of information. Memorial Symposium to A. A. Asratyan.

  Moscow State Publishing House.
- \*358. ADEY, W. R., and KADO, R. T. Analysis of brain wave records from Gemini flight GT-7 and computation to be used in a 30 day primate flight. Proceedings of the COSPAR Space Sciences Meeting, Vienna.
- \*359. BARLOW, J. S. Correlation analysis of EEG tremor relationships in man. EEG Clin. Neurophysiol. Supplement.
- \*360. BARLOW, J. S. Some observations on evoked responses in relation to temporal conditioning to paired stimuli in man. Proceedings of the International Colloquium on Mechanisms of Orienting Reaction in Man, Smolenice and Bratislava, Czechoslovakia, Sept. 11-15, 1965.
- \*361. BARLOW, J. S. Some possibilities for the study of visual-oculomotor processes with the aid of oriental ideograms. Proceedings of the International Colloquium on Mechanisms of Orienting Reaction in Man, Smolenice and Bratislava, Czechoslovakia, Sept. 11-15, 1965.
- \*362. BARLOW, J. S. A simple time-division multiplexing system for low-frequency bioelectric signals. IEEE Trans. VME.
- \*363. BATINI, C., RADULOVACKI, M., KADO, R. T., and ADEY, W. R. Effect of interhemispheric transection on the EEG patterns in sleep and wakefulness in monkeys. Electroenceph. Clin. Neurophysiol.
- \*364. BRADY, J. V. Emotion and the sensitivity of the psychoendocrine system.

  Symposium on Biology and Behavior: Neurophysiology and Emotion, New
  York, Russell Sage Foundation.
- \*365. BROMBERGER, S. Questions. J. Philos.
- \*366. COCKETT, A. T. K. Urinary reflux the physician's dilemma. Urologia Internationalis, Zurich, Switzerland.
- \*367. COCKETT, A. T. K., KADO, R. T., ROBERTS, A. P., and MOORE, R. S. The renal lymphatics: an active fluid transport system. Proceedings of the International Symposium on Lymphology, Zurich, Switzerland.
- \*368. COCKETT, A. T. K., KATZ, Y. J., and MOORE, R. S. Transport of sodium by the lymphatics in simulated congestive heart failure. Investigative Urology.
- \*369. COCKETT, A. T. K., KAZMIN, M., MOORE, R. S., KADO, R. T., and ROBERTS, R. P. Renal lymph oxygen tension during graded renal ischemia. Surgical Forum.
- \*370. COCKETT, A. T. K., KAZMIN, M., NAKAMURA, R., FINGERHUT, A., and STEIN, J.

  J. The enhancement of regional bladder megavoltage irradiation in
  bladder cancer using local bladder hyperthermia. J. Urol.
- \*371. COCKETT, A. T. K., MOORE, R. S., KAZMIN, M., and ROBERTS, A. P. Extraction and bioassay of renin from kidneys of sodium-depleted and sodium-loaded rats. J. Urol.

- \*372. CORNING, W. C. Test of cross-optic transfer of habituated responses in limulus.
- \*373. DORE, E. K., TAPLIN, G. V., JOHNSON, D. E., and COCKETT, A. T. K. Experimental basis of quantitative radiorenography for evaluating renal ischemia. J. Urol.
- \*374. DURLACH, N. I. Note on application of the EC model to interaural JND's.
  J. Acoust. Soc. Amer.
- \*375. EDEN, M. Taxonomies of disease. <u>In</u> J. A. Jacquez, ed. The Diagnostic Process. Proceedings of a Conference sponsored by the Biomedical Data Processing Training Program. Ann Arbor, University of Michigan, Michigan, Apr. 1964.
- \*376. ELDRED, E., and BUCHWALD, J. Central nervous system: motor mechanisms.

  Ann. Rev. Physiol.
- \*377. FINDLEY, J. D., ZIMMERMAN, J., and SCHUSTER, C. Second order avoidance behavior under 24-hour control experiment. J. Exp. Anal. Behav.
- \*378. FRANK, G., HALBERG, F., HARNER, R., MATTHEW, J., JOHNSON, E., GRAVEM, H., and ANDRUS, V. Circadian periodicity, adrenal corticosteroids, sleep deprivation and the EEG in normal men. J. Psych. Res.
- \*379. GARCIA-SAINZ, M., and HALBERG, F. Mitotic rhythms in human cancer, reevaluated by electronic computer programs evidence for temporal pathology. J. Nat. Can. Inst.
- \*380, GESELOWITZ, D. B. On bioelectric potentials in an inhomogeneous volume conductor. Biophys. J.
- \*381. HALBERG, F. Resolving power of electronic computers in temporal pathology an analogy to microscopy. Scientia.
- \*382. HALBERG, F., NELSON, W., RUNGE, W., PITTS, G., SMITH, D., TREMOR, J., EDWARDS, T. M., HAHN, P., COOK, G., SEBESTA, P., and SCHMITT, O. Reproducibility of circadian temperature rhythm in the rat kept in continuous light of  $\approx$  30 lux intensity. The Physiologist.
- \*383. HALBERG, F., TONG, Y. L., and JOHNSON, E. A. Circadian system phase an aspect of temporal morphology; procedures and illustrative examples. Proceedings of the International Congress of Anatomists. Vienna, Springer Verlag, 1965.
- \*384. HODOS, W., and BRADY, J. V. Brain stimulation. International Encyclopedia of the Social Sciences.
- \*385. KADO, R. T., and ADEY, W. R. Electrode problems in central nervous monitoring in performing subjects. Ann. New York Acad. Sci.
- \*386. KARTEN, H. J., and HODOS, W. A stereotaxic atlas of the brain of the pigeon (Columba livia). Johns Hopkins University Press.

- \*387. KATZ, J. J. Mr. Pfeiffer on questions of reference. Foundations of Language.
- \*388. KAZMIN, M., SWANSON, L. E., and COCKETT, A. T. K. Renal scan: the test of choice in renal trauma. J. Urol.
- \*389. KOLERS, P. A. Reading temporally and spatially transformed text. <u>In</u>
  K. N. Goodman, ed. The Psycho-Linguistic Nature of the Reading
  Process. Detroit, Michigan, Wayne University Press.
- \*390. LANGE, K. O., and BRODERSON, A. B. Animal behavior in fields of simulated gravity. Inst. Environ. Sci. 1965 Annual Technical Meeting Proceedings, p. 497-509.
- \*391. LETTVIN, J. Y., and GESTELAND, R. C. Speculations on smell. Cold Spring Harbor Symposia on Quantitative Biology.
- \*392. MANDELL, A. J., MANDELL, M. P., BRILL, P. L., CHAFFEY, B., RODNICK, J., RUBIN, R. T., and SHEFF, R. The stress of dreaming. Amer. J. Psychiat.
- \*393. MARTIN, R. C., RICHARDSON, W. K., and MARTIN, W. L. Simulated gravity (2g): the aversive stimulus in an instrumental escape and punishment situation. J. Eng. Psych.
- \*394. MATTHEWS, G. H. Two-way languages. Inform. Contr.
- \*395. MATTHEWS, G. H., and RED THUNDER CLOUD. Catawba texts. Int. J. Amer. Linguist.
- \*396. NEFF, W. F. Auditory discriminations affected by cortical ablations.

  Paper presented at International Symposium on Sensorineural Hearing
  Processes and Disorders, Henry Ford Hospital, Detroit, Michigan,
  p. 25-27. Mar. 1965.
- \*397. PEREZ-CRUET, J. Cardio-respiratory components of conditional catalepsy to bulbocapnine. Proceedings of Colleguim Internationale Neuro-Psychoparmacologicum. Mar. 28-31, 1966.
- \*398. PEREZ-CRUET, J., and GANTT, W. H. The effect of novel stimuli on renal secretion collected by the ureteral-shunt method. Proceedings International Congress of Nephrology. Washington, D. C. Sept. 1966.
- \*399. PEREZ-CRUET, J., JUDE, J. R., and GANTT, W. H. An attempt to condition extrasystoles using direct myocardial electrical stimulation as an unconditional stimulus. Conditional Reflex.
- \*400. PFEIFFER, R. R. Anteroventral cochlear nucleus: waveforms of extracellularly recorded spike potentials. Science
- \*401. PINEDA, A., and ADEY, W. R. Hypertonic urea: its effects on cortical and subcortical evoked potentials in cat. Brain Res.

- \*402. PITTENDRIGH, C. S. Circadian rhythms, space research and manned space flight. <u>In</u> Life Sciences and Space Research V. Amsterdam, North-Holland Publ. Co.
- \*403. PLISKOFF, S. S., and GOLDIAMOND, I. Some discriminative properties of fixed-ratio performance in the pigeon. J. Exp. Anal. Behav.
- \*404. ROSENBAUM, P. S. On the role of linguistics in the teaching of English.

  Harvard Educ. Rev.
- \*405. SCHMITT, F. O. Molecular correlates of brain function. Michigan State University Symposium. Mar. 24, 1966.
- \*406. SCHMITT, F. O. Molecular dynamics and brain function. Merck, Sharpe and Dohme Symposium, May 26, 1966.
- \*407. THOMAS, J. R., and STUBBS, A. Stimulus control of temporally spaced responding in second-order schedules. J. Exp. Anal. Behav.
- \*408. VALENSTEIN, E. S. The locus of reinforcement. <u>In</u> E. Stellar and J. Sprague, eds. Progress in Physiological Psychology. New York, Academic Press.
- \*409. VALENSTEIN, E. S. Pavlovian typology: comparative comments on the development of a scientific theme. <u>In</u> L. R. Aronson, D. S. Lehrman, J. S. Rosenblatt, E. Tobach, eds. Development and Evolution of Behavior. San Francisco, W. H. Freeman and Co.
- \*410. WALTER, D. O., RHODES, J. M., and ADEY, W. R. Discriminating among states of consciousness by EEG measurements a study of four subjects. Electroencephalogr. Clin. Neurophysiol.
- \*411. WEISS, T. F. A model of the peripheral auditory system. Kybernetik
- \*412. WIEDERHOLD, M. L., and PEAKE, W. T. Efferent inhibition of auditory nerve responses: dependence on acoustic stimulus parameters.

  Science
- \*413. WINTERS, W. D., SPOONER, C. E., MORI, K., and BAUER, R. O. The neuro-physiology of anesthesiology. Anesthesiology

#### In Press

- \*414. ADEY, W. R. Central nervous, cardiovascular and visuomotor studies relating to spatial orientation in a 30 day primate flight. Conference on "Orientation in Space", Calif., Ames Research Center, NASA and National Academy of Sciences, 1966.
- \*415. ADEY, W. R. Intrinsic organization of cerebral tissue in alerting, orienting and discriminative responses. Massachusetts Institute of Technology Neurosciences Research Program Summer Study. Boulder, Rockefeller University Press. 1966.

- \*416. ADEY, W. R. Neurophysiological correlates of information transaction and storage in brain tissue. Progress in Physiol. Psychol., Vol. 1, 1966.
- \*417. HENRY, J. P., and STEPHENS, P. Role of early experience in determining the blood pressure response to social stress. (Abstr.) The Physiologist. 1966.
- \*418. KRIEGER, R. L. Development of a small animal payload and integration with a sounding rocket. 1966.
- \*419. MANDELL, A. J., and RUBIN, R. T. Rhinencephalic regulation of the pituitary-adrenal axis in man. In P. Crandall and R. Walters, eds.

  Brain Stimulation Monograph. Harvard University Press. 1966.
- \*420. NEFF, W. D. Experimental studies of auditory discrimination. International Audiology. 1966.
- \*421. QUASTLER, H., and AUGENSTEIN, L. Information processing and decision making by man. I. Limitations on transmission rate in sequential actions. Brain Res. 1966.
- \*422. STRUMWASSER, F. Types of information stored in single neurons. <u>In</u> C. A. G. Wiersma, ed. Conference on Invertebrate Nervous Systems, p. 291-319. Chicago, Ill., The University of Chicago Press. 1966.
- \*423. STRUMWASSER, F., SCHLECHTE, F. R., and STREETER, J. The internal rhythms of hibernators. In K. Fisher, ed. Proceedings of the Third International Symposium on Mammalian Hibernation. Edinburgh, Oliver and Boyd. 1966.

- \*424. AUGENSTEIN, L., CROWELL, A., MORGAN, R., TUMA, N., and YEARGERS, M.
  Analysis of the structure of English language. East Michigan State
  University Press. 1967.
- \*425. AUGENSTEIN, L., and QUASTLER, H. Information processing and decision making by man. II. Evidence of periodicity. Brain Res. 1967.
- \*426. COCKETT, A. T. K., NAKAMURA, R. M., and KADO, R. T. Patho-physiology of decompression sickness dysbarism. Proceedings of the XVIth International Astronautical Congress, Athens, Greece. Warsaw, Poland, Polish Scientific Publishers, 1967.
- \*427. CORNING, W. C. Regeneration of retention of acquired information. <u>In</u> S. Ratner and W. Corning, eds. The Chemistry of Learning: Invertebrate Preparations. New York, Plenum Press, 1967.
- \*428. STICKNEY, R. E., KEATING, R. F., YAMAMOTO, S., and HASTINGS, W. J. Angular distribution of flow from orifices and tubes at high Knudson numbers. J. Vacuum Sci. Technol. Jan. 1967.

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Kolers, P.A. (M.I.T., Res. Lab. Electronics)
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McAlpine, G. (U. Va.)
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MacDonald, J.S. (M.I.T., Res. Lab. Electronics)
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### ANALYSIS OF THE PUBLICATION SOURCES

The 428 studies published under the auspices of the Behavioral Biology Program of NASA between 1961 and 1967 are represented by the 16 primary research areas listed in the table on page 80. The categories are arranged in terms of total number of publications, and range from 100 in Neurophysiology to one each in Animal Feeding, Biometeorology, and Physics. For all areas, the greatest number occurred in 1965, when 148 studies were published. A number of reports appeared to fall into more than one category although the various alternatives were closely related fields. In such cases, consideration was given to the journal or book in which it appeared and the orientation of the author(s).

In order to ascertain the trend in the frequency of publications appearing in the primary fields, Figures 1-9 were constructed. These distributions indicate the number of studies published in only the first nine categories of the table, since each of the remaining seven has a total of three or less publications for all years. 1961, 1962, and 1963 were combined for the same reason, i.e., there were only 16 publications during these years. In addition to reports which have already been published, the totals for 1966 include those which are in press. Since the year 1967 is incomplete, it has been omitted from the figures.

Figures 1 (Neurophysiology), 2 (Psychology), 5 (Physiology), 6 (Linguistics and Psycholinguistics), and 8 (Information Science) have rather consistent publication frequencies between 1964 and 1966, whereas Figures 3 (Psychophysiology), 4 (Engineering), 7 (Circadian Rhythms), and 9 (Medicine) show some variability for the same period. The greatest change occurred in Psychology, which dropped from 43.8% in 1961-62-63 to 15.6% in 1964, and in Psychophysiology, which rose from 8.8% in 1965 to 17.9% in 1966.

Each of the primary research areas comprises several subcategories. For example, Neurophysiology included studies in electrophysiology, neurochemistry, memory storage and processing, sensory systems, and neurohistology. Learning, perception, animal behavior, and complex processes are emphasized in Psychology. Psychophysiology consists mainly of learning, emotion, sensation and perception, psychosomatics, and reticular system functions. A good deal of work on cardio-vascular and renal problems is found in Physiology, and Information Science covers the fields of programming, coding, and information processing. Finally, most of the research in medicine is concerned with urology.

								In Press				
	<u>1961</u>	1962	1963	1964	1965	1966	No Date	1966	1967	TOTAL		
Neurophysiology			3	19	35	24	16	3		100		
Psychology	1	3	3	12	24	23	7	1		74		
<b>P</b> sychophysiology		2	1	12	13	22	10	2	1	63		
Engineering				8	21	10	1	1	1	42		
Physiology			1	7	14	12	3	1	1	39		
Linguistics and Psycholinguistics				8	15	9	4		1	37		
Circadian Rhythms				7	10	6	4	1		28		
Information Science	1			4	5	4	1	1	1	17		
Medicine					7		9			16		
Philosophy						2	1			3		
Biology					1	1				2		
Biophysics						1	1			2		
Mathematics					1	1				2		
Animal Feeding				1						1		
Biometeorology	1									1		
Physics					1					1		
TOTAL	3	5	8	77	148	115.	57	10	5	428		

Table. Number of studies under the NASA Behavioral Biology Program for the years 1961-1967 according to primary research areas.

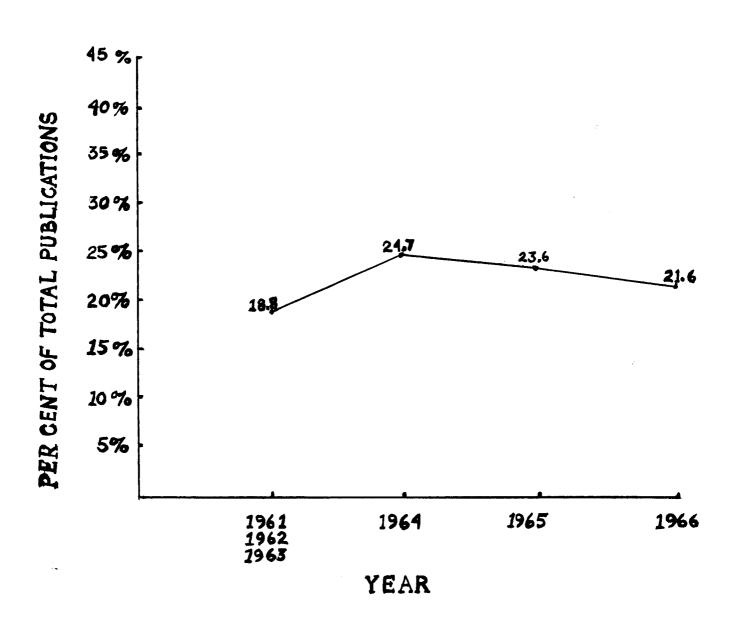


Figure 1. Neurophysiology

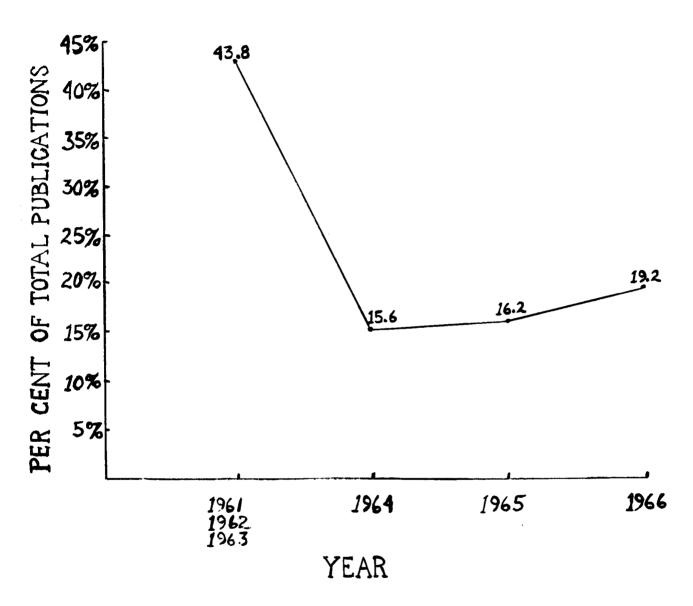


Figure 2. Psychology

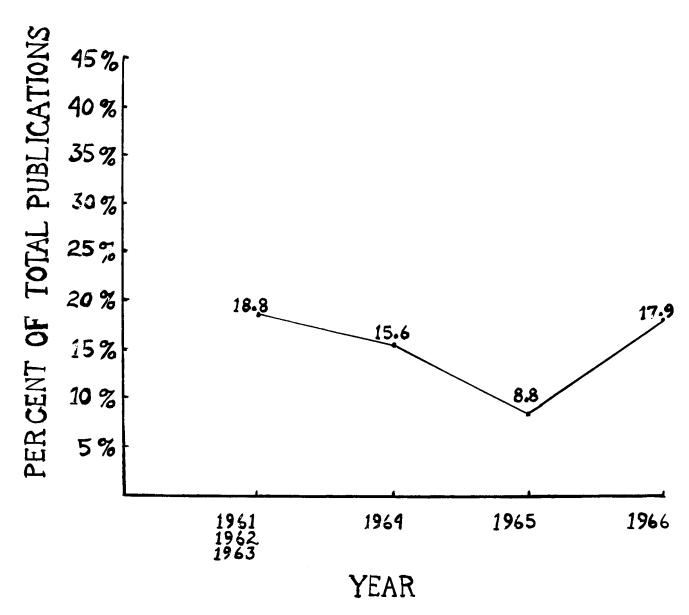


Figure 3. Psychophysiology

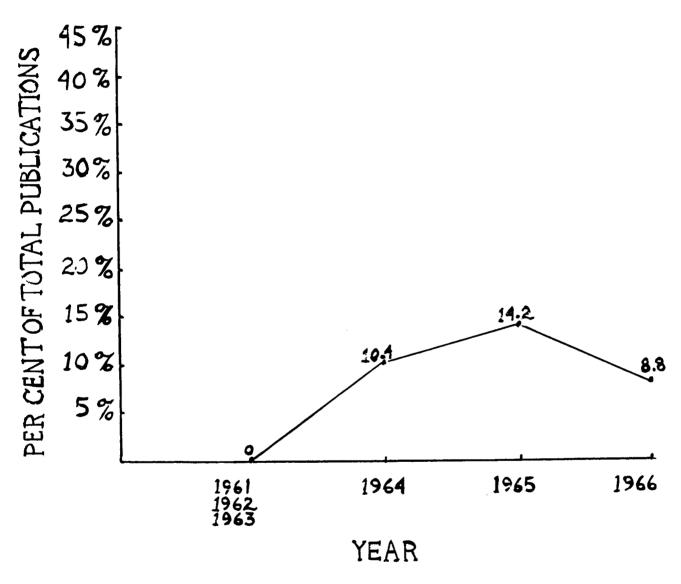


Figure 4. Engineering

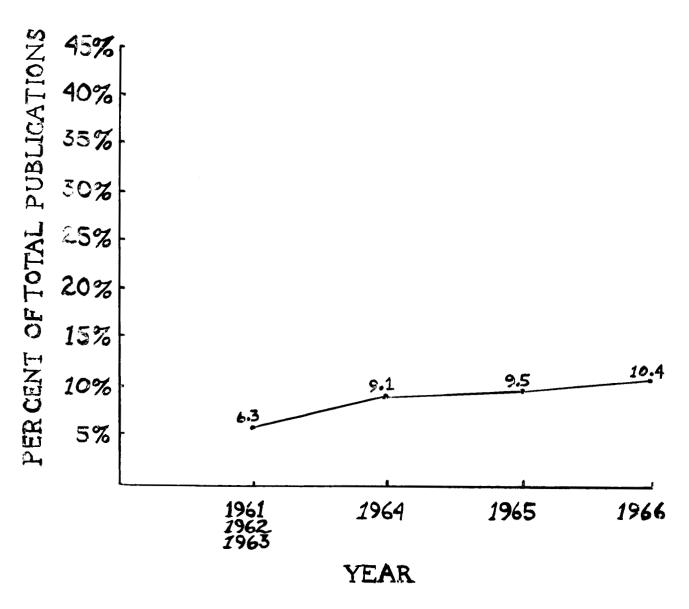


Figure 5. Physiology

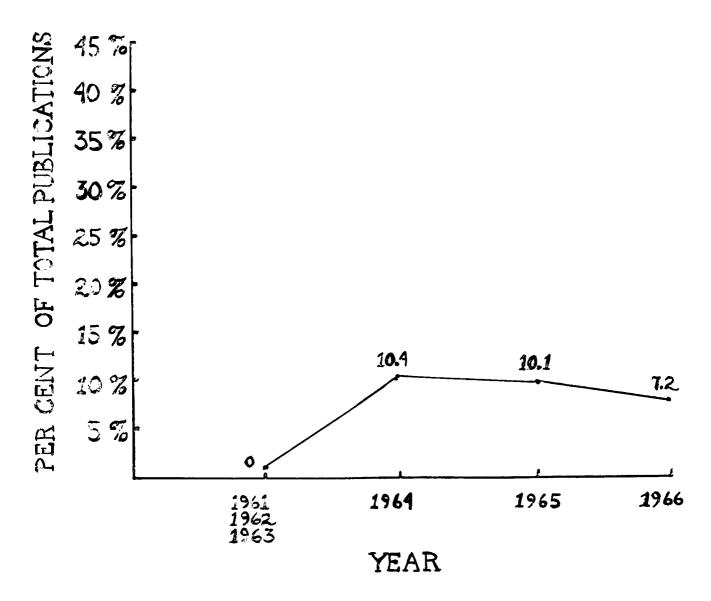


Figure 6. Linguistics and Psycholinguistics

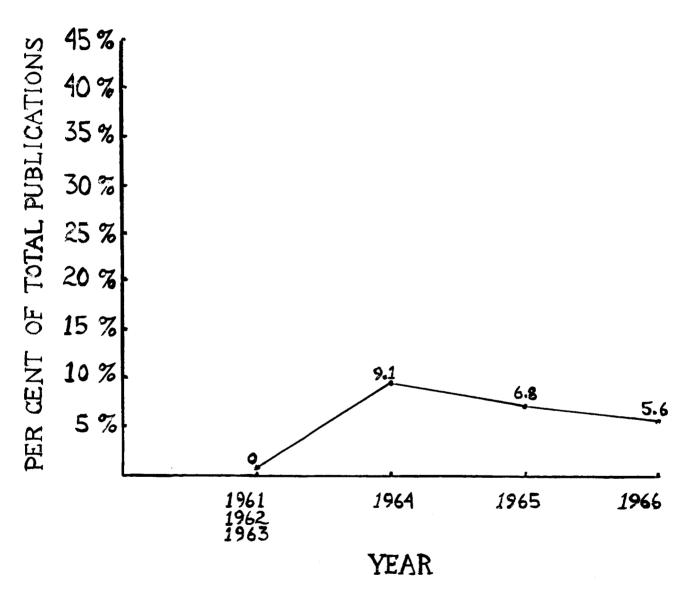


Figure 7. Circadian rhythms

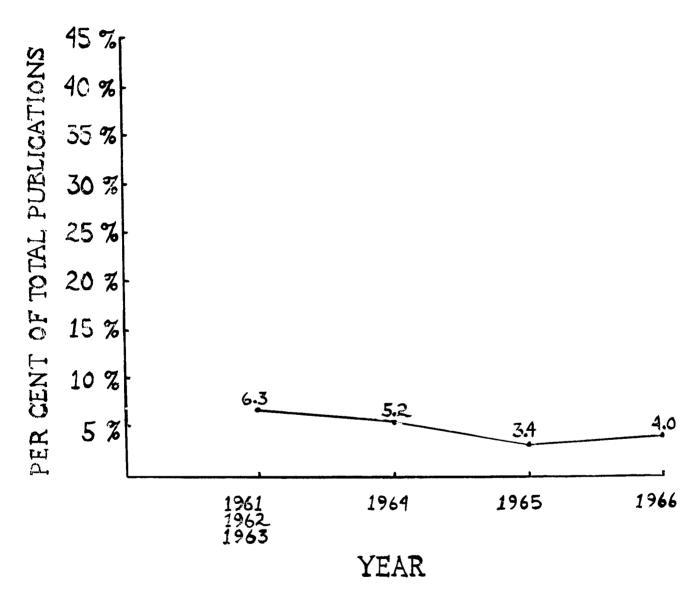


Figure 8. Information sciences

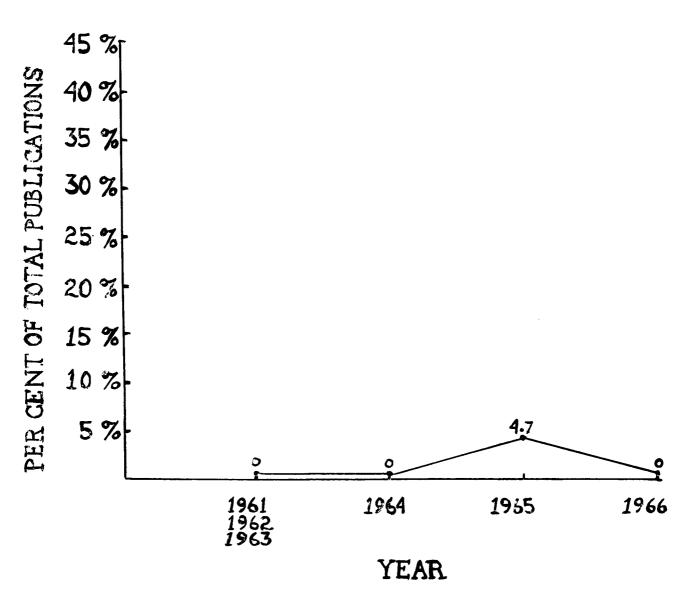


Figure 9. Medicine

## Journals Publishing Behavioral Biology Articles

The following is an alphabetical list of journals in which some of the 428 articles appeared that resulted from research supported by the NASA Behavioral Biology Program.

The papers of this program branch were more widely distributed among the journals than those of the other offices. Of the 117 journals in which these publications appeared, more than 50% carried only one of these articles and more than 80% carried three or less. The "Journal of the Analysis of Experimental Behavior" carried the largest number of these articles (25) followed by "Science" which had 13. An analysis of the journals in which the serial citations of this program appeared is presented.

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Acta Endocrinologica (1)
Acta Endotrinologica Supplementum (Copenhagen) (2)
Acta Oto-Laryngologica (2)
Aerospace Medicine (1)
American Journal of Physiology (1)
American Journal of Phychiatryy (3)
American Journal of Psychology (3)
American Philosophical Quarterly (1)
American Surgeon (1)
Anatomical Record (2)
Anesthesiology (1)
Annals of the New York Academy of Sciences (5)
Annals of Otology, Rhinology and Laryngology (1)
Annual Review of Physiology (1)
Applied Optics (1)
Applied Physics Letters (1)
Archives of Environmental Health (2)
Archives Italliennes de Biologie (1)
ACM Communications (Association for Computing Machinery) (2)
Berichte der Bunsengesellschaft fur physikalische Chemie (1)
Biophysical Journal (3)
Brain Research (4)
British Journal of Psychiatry (1)
British Journal of Urology (1)
Child Development (1)
Clinical Research (7)
Cold Spring Harbor Symposia on Quantitative Biology (1)
Comptes Rendus Academie des Sciences Paris (2)
Electroencephalography and Clinical Neurophysiology (6)
Electroencephalography and Clinical Neurophysiology,
 Supplement (1)
Electronic Letters (1)
Endocrinology (1)
Experientia (2)
Experimental Brain Research (2)
Experimental Neurology (6)
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Federation Proceedings (6)
Harvard Education Review (1)
Information and Control (4)
ICC Bulletin (International Computation Centre) (1)
IEEE International Convention Record (4)
IEEE Proceedings (Institute of Electrical and Electronics
 Engineers, Inc.) (5)
IEEE Spectrum (1)
IEEE Student Journal (1)
IEEE Transactions on Bio-Medical Electronics (Institute of
Electrical and Electronics Engineers, Inc.) (1)
IEEE Transactions on Circuit Theory (1)
IEEE Transactions on Communications Systems (1)
IEEE Transactions on Communication (COM) (Institute of
 Electrical and Electronics Engineers, Inc.) (3)
IEEE Transactions on Computer (Institute of Electrical and
 Electronics Engineers, Inc.) (1)
IEEE Transactions on Electronic Computers (1)
IEEE Transactions on Information Theory (Institute of Electrical
 and Electronics Engineers, Inc.) (7)
International Journal of American Linguistics (1)
International Journal of Biometeorology (1)
International Journal of Control (3)
Investigative Urology (3)
Journal of the Acoustical Society of America (9)
Journal of American Physical Therapy Association (2)
Journal of Applied Physiology (1)
Journal of Comparative Neurology (2)
Journal of Comparative and Physiological Psychology (11)
Journal of Engineering Psychology (1)
Journal of Experimental Analysis of Behavior (25)
Journal of Experimental Psychology (5)
Journal of the Franklin Institute (1)
Journal of Gerontology (1)
Journal of Linguistics (1)
Journal of Mathematical Psychology (1)
Journal of the National Cancer Institute (1)
Journal of Neurophysiology (3)
Journal of the Optical Society of America (1)
Journal of Perceptive Psychophysiology (2)
Journal of Pharmacology and Experimental Therapeutics (1)
Journal of Philosophy (2)
Journal of Physiology (2)
Journal of Psychology (1)
Journal of Psychosomatic Research (1)
Journal of Speech and Hearing Research (2)
Journal of Theoretical Biology (1)
Journal of Urology (6)
Journal of Vacuum Science and Technology (1)
Journal of Verbal Learning and Verbal Behavior (4)
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Kybernetik (2)

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Language (1)
Language and Speech (1)
Life Sciences (3)
Modern Language Journal (1)
Nature (6)
Die Naturwissenschaften (1)
Neurology (1)
Neuropsychologia (6)
New Scientist (1)
Nursing Research (1)
Pediatrics (1)
Perceptual and Motor Skills (3)
The Pharmacologist (1)
Physics Today (1)
The Physiologist (6)
Planta (Berlin) (1)
Presse Medicale (1)
Proceedings of the Institution of Electrical Engineers
 (London) (1)
Proceedings of the National Academy of Sciences (2)
Proceedings of the National Electronics Conference (2)
Proceedings of the Society for Experimental Biology and
 Medicine (1)
Psychological Record (1)
Psychological Review (2)
Psychonomic Science (12)
Psychosomatic Medicine (1)
Quarterly Journal of Experimental Psychology (2)
Science (13)
Scientia (1)
Scientific American (2)
Surgical Forum (2)
Today (1)
Transactions of the New York Academy of Sciences (1)
Urologia Internationalis (1)
Vision Research (1)
Zeitschrift fur Pflanzenphysiologie (1)
```

#### Addendum

1961

A1. BURES, J., BURESOVA, O., FIFKOVA, E., OLDS, M. E., and TRAVIS, R. P. Spreading depression and subcortical drive centers. Physiol. Bohemoslov. 10:321-331. 1961.

1962

- A2. OLDS, J. Hypothalamic substrates of reward. Physiol. Ref. 42(4): 554-604. Oct. 1962.
- A3. OLDS, J. Mechanisms of instrumental conditioning. (Abstr.) EEG 14:426-427. 1962.
- A4. OLDS, J. Spreading depression and hypothalamic behavior mechanisms. Fed. Proc. 21(3):648-658. 1962.

1963

\*A5. OLDS, J. Mechanisms of instrumental conditioning. EEG Suppl. 24. 1963.

1964

- A6. BRIESE, E., and OLDS, J. Reinforcing brain stimulation and memory in monkeys. Exp. Neurol. 10(6):296-304. Dec. 1964.
- A7. OLDS, M. E., and HOGBERG, D. Subcortical lesions and maze retention in the rats. Exp. Neurol. 10(4):296-304. Oct. 1964.
- A8. OLDS, J., and OLDS, M. E. The mechanisms of voluntary behavior. In R. E. Heath, ed. The Role of Pleasure in Behavior, p. 23-53.

  New York, Hoeber Medical Division, Harper and Row, 1964.

# Errata Sheet

- The following citations should be corrected to read:
  - 418. EARLY, L. J., ed. Development of a small animal payload and integration with a sounding rocket. 1966.
- #669 in VOLUME II ENVIRONMENTAL BIOLOGY should be cited in VOLUME I as follows:
  - 262.1.FRENCH, J. D., ADEY, W. R., and WALTER, D. O. Computer analysis of EEG data for a normative library. Final report to the National Aeronautics and Space Administration on Research Contract NAS 9-1970, Sept. 23, 1963 to Jan. 31, 1966. Apr. 15, 1966.